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ARL STATISTICS, 1988-89

ARL STATISTICS

1988-89

A COMPILATION OF STATISTICS
FROM THE ONE HUNDRED AND NINETEEN MEMBERS OF THE
ASSOCIATION OF RESEARCH LIBRARIES

Compiled by
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and
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ASSOCIATION OF RESEARCH LIBRARIES
WASHINGTON, D.C.
1990

The *ARL Statistics* is published annually by

the Association of Research Libraries,
1527 New Hampshire Avenue, N.W., Washington, D.C. 20036

Price: ARL Members $20.00/year
Nonmembers $60.00/year

ARL statistical data are also available from the
Association in machine-readable form

Association of Research Libraries.
ARL statistics.
Washington, Association of Research Libraries.
v. 29 cm.

Began with 1974/75 issue.
Continues: Academic library statistics, ISSN 0571-6519.
Key title: ARL statistics, ISSN 0147-2135

1. Libraries, University and college—United States—Statistics—Collected works. 2. Research libraries—United States—Statistics—Collected works. 3. Libraries, University and college—Canada—Statistics—Collected works. 4. Research libraries—Canada—Statistics—Collected works. I. Title.

Z675.U5A78 027.773 77-647280
MARC-S

Library of Congress 77

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Printed in the United States of America

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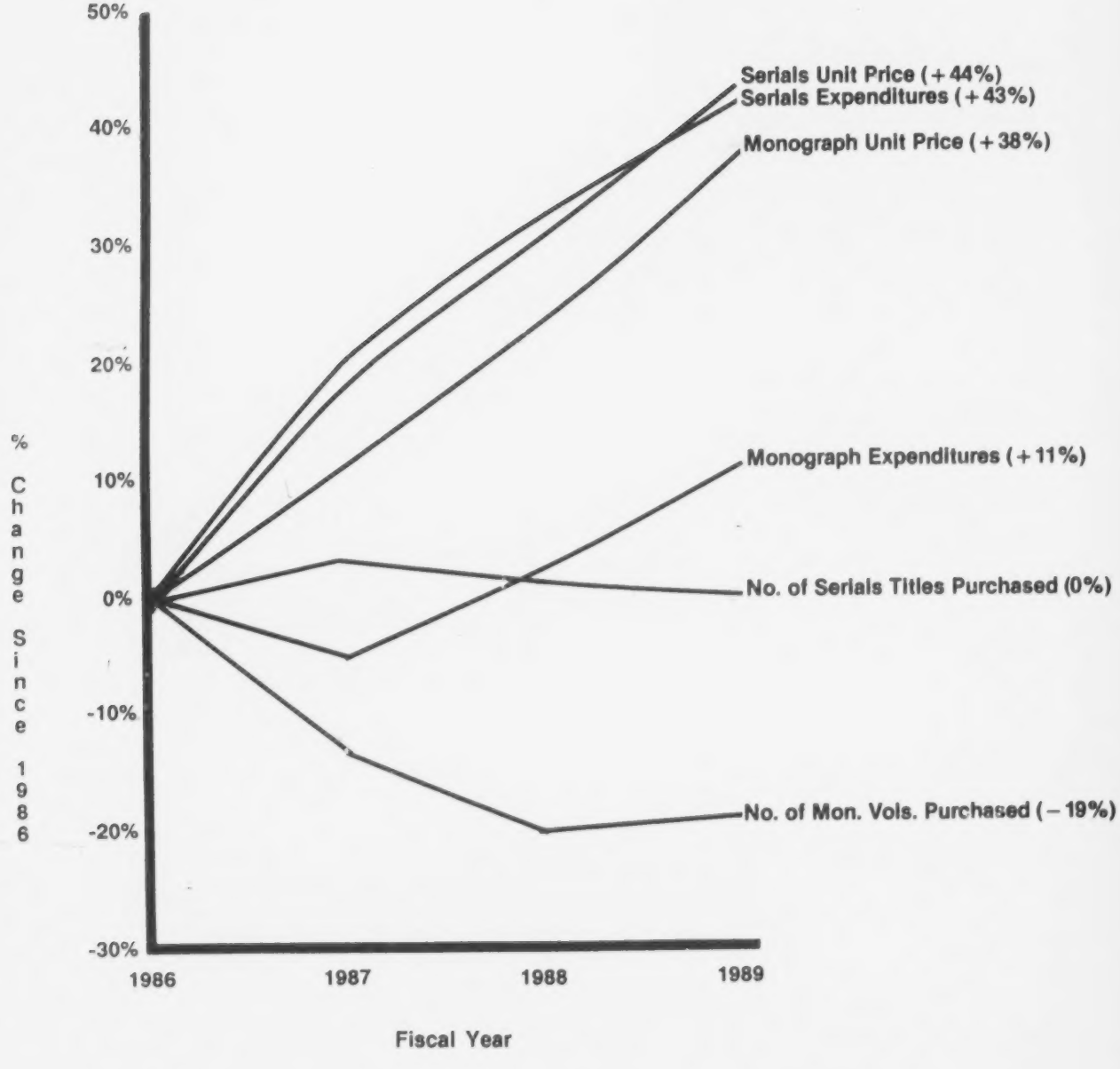
Monograph and Serial Costs in ARL Libraries

1985-86 – 1988-89



INTRODUCTION

The 1988-89 *ARL Statistics* presents data for the U.S. and Canadian libraries that were members of the Association of Research Libraries during the 1988-89 fiscal year. The ARL membership consists of 107 university libraries and 12 public or private, independent research libraries. 106 university libraries and all of the non-university libraries reported their data; Northwestern University, for the first time since 1923, failed to report.[1]

The economic trends of the past few years continued to take a toll on research libraries during 1988-89. The graph on the facing page illustrates some of these trends. Among academic libraries that reported expenditures for monographs and current serials, and numbers of items purchased in each category, the median unit price of serial subscriptions increased by 10%. (These increases followed 12% increases for both monographs and serials in the preceding year, 1986-87–1987-88.) Total expenditures for monographs rose about 9% and for serials about 8% As a result, the numbers of monographs and serials acquired in 1988-89 were approximately the same as in the preceding year.

The graph shows the percentage changes in these categories of data since 1985-86. Expenditures for serials have almost exactly kept pace with rising serial prices, so that the typical academic research library today has the same number of subscriptions as in 1985-86. But it is paying 43% more for those subscriptions. If these kinds of increases continue, by 1993 the typical library will be paying twice as much for the same number of serials that it acquired in 1986. Clearly, research libraries have been tending to protect their serials at the expense of monographs. Monograph prices have been tending to protect their serials at the expense of monographs. Monograph prices have been rising at rates somewhat below those of serials (except for the past year), but the money available for monographs has fallen and risen, depending on the total funds available for library materials. While the median number of monographs purchased in 1988-89 was about the same as in the previous year, overall the typical research library bought only about 80% as many monographs as in 1986.

A small sign of hope, as the graph displays, was the 1986 leveling off in the decline in numbers of monographs purchased. This change was due to a median 9% increase in total expenditures–the catch-all category in ARL libraries for everything but salaries, wages, materials, and binding–have been the fastest-rising component of expenditures. In 1989 this category was up by 12%. The increase in salaries and wages, the largest category of expenditures, was under 7%. Total library expenditures, as usual, increased 7 to 8%. Because of these differing rates of increase, salaries and wages continued to decline slightly as a percentage of total library expenditures.

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[1] Northwestern has issued the following statement: "Data from Northwestern University Library are unavailable. In light of a pending U.S. Department of Justice investigation of a number of colleges and universities concerning alleged collusion in determining tuition and financial aid for students, Northwestern University Library has been advised by legal counsel to delay submission of survey data at this time."

With the numbers of monographs and serial acquisitions more or less constant from 1988 to 1989, one would expect no increase in the number of gross volumes added to the collections. And indeed the median library added (i.e., cataloged) approximately the same number of volumes in 1989 as in 1988. Similarly, there was almost no change in the number of current serials received (including purchased and unpurchased serials).

In regard to personnel, 62 of the 106 university libraries (59%) reported more professional staff in 1989 than in 1988, while 59 (56%) noted more student assistants. 59 (56%) also reported fewer non-professional staff. And 65 (61%) reported an increase in total staff.

The preceding statistics only hint at the variation among ARL members. Those using the *ARL Statistics* to compare individual libraries should consult the "Footnotes" and the symbols indicated in the "ARL Library Data Tables." AL:though definitions used in the *Statistics* aim at consistency, differing reporting practices do exist among member libraries. To aid comparability, expenditures of Canadian libraries are expressed in U.S. dollars in the *ARL Statistics*. The exchange rate used for 1988-89 is 1.2026 Canadian dollars to one U.S. dollar.[2]

The rank order tables presented in this publication are quantitative, are not indicative of performance and outcomes, and therefore should not be used as measures of library quality. In comparing any individual library to ARL medians or to other ARL members, one must be careful to make such comparisons within the context of differing institutional and local goals and characteristics.

Kendon Stubbs
University of Virginia Library
January 17, 1990

[2] The rate used is the annual average monthly noon exchange rates published in the *Bank of Canada Review* for the period July 1988 through June 1989. Expenditures reported in Canadian dollars are given in the "Footnotes" to the *ARL Statistics*.

ARL LIBRARY DATA TABLES

ARL LIBRARY DATA TABLE

COLLECTIONS

INSTITUTION		Libr No.	Volumes In Library	Volumes Added (Gross)	Volumes Added (Net)	Mono-graphs Purchased	Current Serials Purchased	Current Serials Not Purchased	Current Serials Total	Total Microform Units In Library
			1	2	3	4	5	6	7	8
ALABAMA	GLM+	1	1,772,934	42,959	40,876	15,675	16,746	695	17,441	1,345,014
ALBERTA	BLM+	2	2,844,697	83,889	83,002	37,688	17,638	1,788	19,426	2,696,022
ARIZONA	GLM+	3	3,424,698	99,861	95,342	52,988	U/A	U/A	28,808	3,880,539
ARIZONA STATE	BL+	4	2,466,274	133,883	125,617	U/A	U/A	U/A	34,001	3,117,172
BOSTON	GLM+	5	1,711,215	53,264	45,312	20,453	17,311	11,844	29,155	2,717,358
BRIGHAM YOUNG	+	6	1,997,272	73,741	70,795	57,274	11,603	7,112	18,715	1,637,958
BRITISH COLUMBIA	GLM+	7	2,817,779	109,572	98,193	61,174	16,540	4,959	21,499	927,312
BROWN	b+	8	2,172,889	50,664	49,839	27,268	10,031	3,433	13,464	1,093,406
CALIFORNIA, BERKELEY	L+	9	7,366,672	195,076	175,851	U/A	U/A	U/A	103,944	4,255,519
CALIFORNIA, DAVIS	bLM+	10	2,306,831	89,236	79,576	78,199	38,621	12,865	51,486	2,705,396
CALIFORNIA, IRVINE	GM+	11	1,395,955	54,085	34,199	24,733	15,585	882	16,467	1,364,300
CALIFORNIA, LOS ANGELES	LM+	12	5,976,588	188,733	148,135	U/A	U/A	U/A	93,549	5,473,071
CALIFORNIA, RIVERSIDE	+	13	1,414,570	47,757	45,487	26,997	8,154	949	9,103	1,190,247
CALIFORNIA, SAN DIEGO	M+	14	1,888,207	65,414	41,446	39,931	17,068	13,157	30,225	1,473,379
CALIFORNIA, SANTA BARBARA	+	15	1,927,290	67,973	65,123	32,718	12,468	9,029	21,497	2,612,448
CASE WESTERN RESERVE	GLM+	16	1,559,365	33,112	24,548	15,294	11,609	736	12,345	679,105
CHICAGO	bLM+	17	5,063,051	96,350	92,331	63,463	U/A	U/A	50,663	1,473,403
CINCINNATI	GLM+	18	1,693,173	58,255	56,354	U/A	U/A	U/A	19,027	2,241,587
COLORADO	GL+	19	2,227,963	53,930	42,398	28,125	14,288	796	15,084	1,273,941
COLORADO STATE	G+	20	1,182,764	45,006	42,656	25,058	8,417	2,867	11,284	188,000

B - Includes Branch Campuses
G - Government Documents Not Included in Serials Count
L - Includes Law Library
M - Includes Medical Library
N/A - Not Applicable
+ - See Footnotes
b - Bibliographic Count
U/A - Unavailable

ARL LIBRARY DATA TABLE

	INTERLIBRARY LOANS		PERSONNEL (FTE)				EXPENDITURES			
Libr No	Total Loaned	Total Borrowed	Prof. Staff	Non. Prof. Staff	Student Assts.	Total Staff	Monographs	Current Serials	Other Library Materials	Misc. Materials Expend.
	9	10	11	12	13	14	15	16	17	18
1	6,617	4,989	54	76	46	176	573,829	1,828,598	34,716	0
2	43,635	14,181	86	275	41	402	1,067,492	2,459,011	U/A	U/A
3	40,857	8,938	97	187	102	386	1,942,292	2,651,895	416,704	198,769
4	33,171	8,025	99	222	60	381	2,708,609	2,946,599	38,601	42,210
5	9,383	10,386	69	143	65	277	751,808	2,079,796	382,688	35,000
6	12,293	15,638	89	46	195	330	1,727,567	1,633,755	216,083	0
7	24,878	11,545	108	260	47	415	2,125,155	2,249,548	U/A	U/A
8	9,990	5,577	82	113	70	265	1,137,452	1,602,947	U/A	7,863
9	45,821	20,039	173	286	314	773	2,924,710	4,258,084	U/A	U/A
10	37,878	8,311	72	201	59	332	1,628,888	3,657,599	170,300	0
11	18,423	12,255	57	116	55	228	1,064,364	2,075,976	215,642	84,577
12	61,118	10,287	204	322	202	728	4,536,343	3,274,347	U/A	10,762
13	9,319	10,289	36	104	51	191	898,249	1,280,698	22,947	0
14	21,837	10,027	86	175	78	339	1,750,326	1,820,407	405,446	90,722
15	9,751	10,849	62	145	43	250	1,105,286	1,978,271	U/A	0
16	37,620	7,632	65	83	33	181	616,780	1,767,130	28,034	76,484
17	50,358	8,665	78	223	66	367	1,877,952	2,571,281	U/A	0
18	24,681	12,904	73	127	85	285	1,231,629	2,642,766	U/A	U/A
19	20,767	11,760	54	108	59	221	912,538	2,152,571	43,658	672,638
20	20,434	15,440	43	78	20	141	820,156	1,448,128	34,200	290,566

N/A - Not Applicable U/A - Unavailable

ARL LIBRARY DATA TABLE

EXPENDITURES

Total Library Materials	Contract Binding	Salaries & Wages Prof.	Salaries & Wages Non-Prof.	Salaries & Wages Student Assistants	Total Salaries & Wages	Other Operating Expend.	Total Library Expend.	INSTITUTION
19	20	21	22	23	24	25	26	
2,437,143	132,701	1,262,011	1,135,014	386,670	2,783,695	784,155	6,137,694	ALABAMA
3,526,503	115,000	2,843,497	4,709,024	549,665	8,102,186	1,627,383	13,371,072	ALBERTA
5,209,660	348,931	2,957,721	2,514,384	711,713	6,183,818	1,490,150	13,232,559	ARIZONA
5,736,019	273,489	2,629,943	2,944,787	474,312	6,049,042	1,819,037	13,877,587	ARIZONA STATE
3,249,292	198,875	2,048,232	2,229,821	418,898	4,696,951	1,261,460	9,406,578	BOSTON
3,577,405	133,333	2,463,251	720,461	1,243,152	4,426,864	1,076,127	9,213,729	BRIGHAM YOUNG
4,374,702	173,725	3,407,171	4,375,726	751,636	8,534,533	1,061,680	14,144,640	BRITISH COLUMBIA
2,748,262	111,479	2,218,337	1,719,611	312,478	4,250,426	2,295,837	9,406,004	BROWN
7,182,794	807,619	5,561,844	7,408,763	4,703,230	17,673,837	3,816,449	29,480,699	CALIFORNIA, BERKELEY
5,456,787	380,559	2,813,631	4,259,964	839,733	7,913,328	1,287,330	15,038,004	CALIFORNIA, DAVIS
3,440,559	221,638	2,155,528	2,510,317	683,995	5,349,840	1,469,019	10,481,056	CALIFORNIA, IRVINE
7,821,472	532,582	7,857,072	6,307,228	2,141,364	16,305,664	4,689,419	29,349,137	CALIFORNIA, LOS ANGELES
2,201,894	158,671	1,312,570	1,852,501	500,523	3,665,594	583,515	6,609,674	CALIFORNIA, RIVERSIDE
4,066,901	286,914	2,748,252	3,586,310	915,053	7,249,615	1,853,657	13,457,087	CALIFORNIA, SAN DIEGO
3,083,557	281,054	2,427,239	2,958,123	776,865	6,162,227	1,509,980	11,036,818	CALIFORNIA, SANTA BARBARA
2,488,428	98,054	1,798,574	1,194,507	197,231	3,190,312	931,528	6,708,322	CASE WESTERN RESERVE
4,449,233	402,095	2,136,243	4,109,559	662,481	6,908,283	3,093,074	14,852,685	CHICAGO
3,874,395	148,596	U/A	U/A	660,341	5,591,042	1,382,484	10,996,517	CINCINNATI
3,781,405	154,179	1,723,744	2,463,146	581,302	4,768,192	854,401	9,558,177	COLORADO
2,593,129	129,450	1,123,162	1,439,699	225,059	2,787,920	862,667	6,373,166	COLORADO STATE

N/A - Not Applicable U/A - Unavailable

ARL LIBRARY DATA TABLE

COLLECTIONS

			Volumes Held	Volumes Added Gross	Volumes Added (Net)	Mono-graphs Purchased	Current Serials Purchased	Current Serials Not Purchased	Current Serials Total	Total Microform Units In Library
			2	3	4	5	6	7	8
			[illegible]	[illegible]	[illegible]	U/A	47,009	16,832	63,841	3,916,294
			[illegible]	[illegible]	64,519	U/A	U/A	U/A	19,499	2,534,895
			[illegible]	106,812	77,462	U/A	U/A	U/A	61,369	4,759,356
			[illegible]	57,543	51,771	24,382	16,581	3,952	20,533	2,149,809
			1,898,511	61,888	61,353	U/A	U/A	U/A	23,490	1,851,355
	M+		3,757,814	96,563	88,090	44,068	U/A	U/A	30,018	1,385,578
	M+		1,820,956	58,526	55,562	U/A	U/A	U/A	16,733	1,722,863
	M+		2,782,279	100,629	90,863	43,327	26,136	3,406	29,542	2,704,384
			[illegible]	[illegible]	45,046	U/A	U/A	U/A	18,656	3,247,651
	M+		[illegible]	72,282	68,345	50,817	19,310	1,931	21,241	1,849,087
			[illegible]	100,879	99,878	U/A	43,180	14,770	57,950	4,054,277
			[illegible]	35,753	35,521	5,652	15,210	7,370	23,580	2,901,213
	M+		1,837,164	57,981	57,981	20,800	U/A	U/A	12,987	1,155,115
	M+		11,781,270	336,649	239,291	U/A	U/A	U/A	102,000	5,230,504
	G+		2,312,229	70,287	68,111	U/A	23,580	8,677	32,257	3,600,171
	G+		1,598,010	38,222	36,009	25,276	15,653	837	16,490	3,146,164
	M+		[illegible]	60,884	58,756	27,167	26,088	1,843	27,931	2,641,300
	M		[illegible]	55,925	46,550	29,705	U/A	U/A	17,660	1,716,927
			[illegible]	188,468	184,564	100,492	U/A	U/A	92,445	3,374,194
			4,045,828	87,861	34,153	59,000	24,298	1,401	25,699	1,624,710

L - Includes Law Library
M - Includes Medical Library
N/A - Not Applicable

* - See Footnotes
b - Bibliographic Count
U/A - Unavailable

ARL LIBRARY DATA TABLE

Libr No	INTER-LIBRARY LOAN		PERSONNEL				EXPENDITURES			
	[illegible]	[illegible]	[illegible]	[illegible]	Student Assts.	Total Staff	Monographs	Current Serials	Other Library Materials	Misc. Materials Expend.
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
21	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
22	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
24	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
25	11,861	4,537	61	121	52	234	2,033,876	1,980,478	U/A	0
26	35,747	7,598	93	173	53	319	1,936,951	2,720,574	107,686	140,347
27	22,361	7,008	63	146	48	257	1,440,510	2,097,789	331,220	149,256
28	29,549	6,981	107	183	99	389	1,441,239	2,242,853	870,444	196,950
29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
30	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
31	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
32	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
33	2,241	3,835	30	112	13	155	586,611	1,027,994	230,930	0
34	45,329	8,478	336	590	139	1,065	4,740,865	4,369,333	1,373,143	85,599
35	10,827	2,997	66	100	70	236	1,021,552	1,771,256	136,196	0
36	10,366	9,227	48	87	70	205	738,263	1,711,519	99,495	147,962
37	3,819	869	83	126	15	224	1,025,380	2,694,799	29,845	42,145
38	121,899	48,639	80	175	30	295	1,345,675	1,733,721	321,880	0
39	128,988	170,250	150	267	123	540	2,582,752	3,063,482	3,663	0
40	49,845	15,188	119	199	147	465	2,146,685	2,319,938	540,612	322,883

N/A - Not Applicable U/A - Unavailable

ARL LIBRARY DATA TABLE

EXPENDITURES

								INSTITUTION
4,014,354	128,219	1,588,157	1,680,420	349,466	3,618,033	1,203,631	8,964,237	DELAWARE
4,905,668	218,529	3,170,221	3,053,979	485,649	6,709,849	1,924,678	13,758,604	DUKE
4,018,775	155,233	2,056,838	2,248,096	517,753	4,822,687	1,744,579	10,741,274	EMORY
4,751,486	228,054	3,781,562	3,637,242	804,602	8,223,406	1,182,661	14,385,607	FLORIDA
								FLORIDA STATE
								GEORGETOWN
								GEORGIA
								GEORGIA TECH
1,845,535	68,316	1,272,490	1,786,980	105,991	3,165,461	353,226	5,432,538	GUELPH
10,568,940	846,442	11,155,810	10,517,661	1,021,115	22,694,586	6,795,569	40,905,537	HARVARD
2,929,004	185,706	2,447,027	1,855,458	639,923	4,942,408	654,966	8,712,084	HAWAII
2,697,239	79,133	1,332,947	1,256,832	493,767	3,083,546	495,687	6,355,605	HOUSTON
								HOWARD
								ILLINOIS, CHICAGO
								ILLINOIS, URBANA
5,330,118	208,123	3,545,680	3,141,728	1,004,609	7,893,817	2,194,148	15,425,406	INDIANA

N/A - Not Applicable U/A - Unavailable

ARL LIBRARY DATA TABLE

IOWA	M+	51	3,218,594	93,434	56,690	59,406	22,825	1,294	24,119	3,202,544
IOWA STATE	+	42	1,792,319	43,716	34,569	21,253	12,474	6,203	18,627	2,141,975
JOHNS HOPKINS	M+	43	2,784,847	65,648	60,940	42,154	15,423	4,904	20,327	1,480,444
KANSAS	LM+	44	2,795,134	71,272	64,062	39,464	19,673	8,184	27,857	2,109,557
KENT										
KEN										
LAVA										
LOUI										
MCGILL	UM+	49	2,477,398	68,702	35,794	75,856	14,163	3,284	17,447	990,099
MCMASTER	UM+	56	1,338,532	44,879	40,198	28,450	10,921	686	11,607	416,420
MANITOBA	UM+	51	1,391,675	35,260	30,800	17,725	10,969	1,399	12,368	1,017,083
MARYLAND	+	52	1,993,077	68,531	64,805	30,252	20,040	2,486	22,526	4,078,087
MASSA										
MIT										
MIAM										
MICHIGA										
MICHIGAN STATE	+	57	3,373,215	114,571	71,476	36,278	14,752	14,002	28,754	3,412,157
MINNESOTA	ULM+	58	4,537,087	97,527	63,825	U/A	35,733	11,277	47,010	2,766,010
MISSOURI	ULM+	59	2,446,491	38,961	35,922	15,757	12,924	4,149	17,073	4,708,404
NEBRASKA	L+	60	1,967,758	46,367	42,385	20,510	14,101	3,525	17,626	2,774,899

ARL LIBRARY DATA TABLE

										18
42	49,[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	2,195,108	69,543	322,182
43	[illegible]	[illegible]	43	[illegible]	94	218	900,822	2,005,844	27,076	27,000
44	33,[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	524	1,033,179	2,296,113	315,662	122,663
45	33,[illegible]	2[illegible]	90	130	90	310	1,612,893	2,168,094	14,260	62,718
										29,674
										221,165
										103,045
										174,266
49	26,[illegible]	[illegible]	80	196	42	318	1,488,735	1,999,155	U/A	617,475
50	22,[illegible]	2,[illegible]	49	140	20	260	1,577,308	2,012,812	U/A	24,872
51	17,[illegible]	5,113	54	144	31	238	[illegible]78,623	1,584,607	U/A	U/A
52	18,[illegible]	5,[illegible]	90	149	[illegible]	342	932,195	2,194,095	420,490	204,335
							[illegible]	[illegible]	U/A	63,828
[illegible]						[illegible]	[illegible]	[illegible]	41,469	282,936
[illegible]					[illegible]	[illegible]	[illegible]	[illegible]	4,422	8,695
[illegible]					[illegible]	[illegible]	[illegible]	[illegible]	U/A	U/A
57	16,985	7,129	80	225	120	325	1,422,158	2,130,162	U/A	72,614
58	168,755	11,883	124	190	161	465	2,044,190	3,367,212	U/A	161,174
59	29,715	8,918	56	124	58	238	783,080	1,772,913	15,378	63,692
60	12,377	9,166	53	112	44	209	895,553	1,929,870	U/A	129,242

[illegible]

ARL LIBRARY DATA TABLE

EXPENDITURES

Total Library Materials	Contract Binding	Salaries & wages Prof.	Salaries & wages Non-Prof.	Salaries & wages Student Assistants	Total Salaries & wages	Other Operating Expend.	Total Library Expend.	INSTITUTION
19	20	21	22	23	24	25	26	
4,661,359	190,494	2,841,157	1,894,803	368,192	5,104,152	597,898	10,553,903	IOWA
2,960,547	158,006	1,583,835	1,996,998	435,426	4,016,259	373,512	7,508,324	IOWA STATE
4,371,677	108,557	2,972,934	3,283,285	368,284	6,624,503	3,112,667	14,217,404	JOHNS HOPKINS
3,757,965	201,128	2,455,711	2,262,319	743,081	5,461,111	2,025,831	11,446,035	KANSAS
1,995,219	102,126	1,696,285	2,202,384	524,006	4,096,170	2,134,943	8,893,468	KENT STATE
3,103,398	71,445	1,843,244	1,639,433	585,128	4,364,274	597,021	7,892,099	KENTUCKY
2,549,179	90,859	2,980,137	4,003,209	183,138	7,073,484	875,356	10,574,873	LAVAL
3,307,614	219,115	U/A	U/A	734,920	3,958,113	626,562	8,002,404	LOUISIANA STATE
4,055,366	151,339	3,209,826	4,378,330	435,061	8,023,217	529,800	12,759,722	MCGILL
3,614,992	91,075	1,351,389	2,748,263	289,854	4,389,506	410,698	8,506,271	MCMASTER
2,363,230	136,369	1,974,566	2,474,317	403,451	4,852,334	845,506	8,197,539	MANITOBA
3,751,115	201,733	3,056,677	2,745,159	782,408	6,584,244	1,578,365	12,115,457	MARYLAND
3,000,978	115,807	2,398,608	2,425,700	385,549	5,209,857	867,783	9,192,395	MASSACHUSETTS
2,690,928	100,140	3,697,340	2,543,825	331,238	5,472,903	1,625,677	9,916,248	MIT
3,366,882	111,452	2,168,860	1,759,249	478,476	4,406,585	1,210,181	9,095,200	MIAMI
7,080,443	275,482	5,014,012	5,397,138	1,270,444	11,686,594	2,068,639	21,111,158	MICHIGAN
3,624,934	187,273	2,523,736	2,512,082	1,150,252	6,186,070	2,308,089	12,306,366	MICHIGAN STATE
5,572,576	396,318	4,378,544	4,016,726	2,040,404	10,435,674	2,808,746	19,213,314	MINNESOTA
2,635,063	124,419	1,601,247	1,811,032	408,916	3,821,195	940,225	7,520,902	MISSOURI
2,954,665	124,202	1,528,395	1,463,830	328,970	3,321,195	681,392	7,081,454	NEBRASKA

N/A - Not Applicable U/A - Unavailable

ARL LIBRARY DATA TABLE

INSTITUTION		Fr. No.	COLLECTIONS: Volumes in Library	Volumes Added (Gross)	Volumes Added (Net)	Mono-graphs Purchased	Current Serials Purchased	Current Serials Not Purchased	Current Serials Total	Total Microform Units In Library
			1	2	3	4	5	6	7	8
NEW MEXICO	M+	52	1,667,149	52,575	40,197	17,476	U/A	U/A	16,177	3,701,584
NEW YORK	LM+	53	3,921,623	74,628	53,168	37,850	24,615	4,884	29,499	2,529,260
NORTH CAROLINA	M+	63	3,835,509	127,838	115,236	40,932	U/A	U/A	41,758	3,013,887
NORTH CAROLINA STATE	M+	64	1,263,966	34,343	34,331	13,967	11,423	2,026	13,349	3,035,987
NORTHWESTERN	GLM+	65	U/A	U/A	U/A	U/A	U/A	U/A	U/A	U/A
NOTRE DAME	GL+	66	1,929,116	76,728	67,700	27,250	U/A	1	16,602	1,293,625
OHIO STATE	bLM+	67	4,338,474	99,622	84,208	64,958	23,509	8,496	32,005	3,124,060
OKLAHOMA	bLM+	68	2,261,724	39,348	31,467	21,423	16,887	701	17,588	2,774,476
OKLAHOMA STATE	BM+	69	1,524,543	47,767	46,840	11,446	10,888	1,088	11,976	842,934
OREGON	GL+	70	1,844,650	41,937	40,801	27,533	16,015	5,009	21,024	1,761,082
PENNSYLVANIA	LM+	71	3,576,227	96,796	76,486	42,576	U/A	U/A	30,419	2,368,423
PENNSYLVANIA STATE	+	72	2,043,837	85,650	79,223	U/A	U/A	U/A	30,345	3,057,959
PITTSBURGH	LM+	73	2,789,211	91,980	76,796	U/A	U/A	U/A	22,259	2,366,794
PRINCETON	+	74	4,175,904	110,908	105,077	75,553	U/A	U/A	31,414	2,458,236
PURDUE	bG+	75	1,867,691	60,029	53,626	16,098	18,032	3,010	21,042	1,777,608
QUEEN'S	bGLM+	76	1,748,868	36,848	36,728	31,771	U/A	U/A	15,747	1,717,551
RICE	bG+	77	1,403,820	36,127	35,497	U/A	11,392	761	12,153	1,911,998
ROCHESTER	BM+	78	2,639,518	53,898	47,090	22,085	12,206	1,753	13,959	2,397,217
RUTGERS	GBL+	79	3,129,861	113,110	92,193	67,723	U/A	U/A	28,433	3,536,150
SASKATCHEWAN	GLM+	80	1,372,707	52,592	15,161	20,826	9,903	845	10,748	2,008,684

B - Includes Branch Campuses
G - Government Documents Not Included in Serials Count
L - Includes Law Library
M - Includes Medical Library
N/A - Not Applicable
+ - See footnotes
b - Bibliographic Count
U/A - Unavailable

ARL LIBRARY DATA TABLE

	INTERLIBRARY LOAN		PERSONNEL				EXPENDITURES			
Libr No	Total Loaned	Total Borrowed	Other Staff	Prof. Staff	Student Assts.	Total Staff	Monographs	Current Serials	Other Library Materials	Misc. Materials Expend.
	14	15	12	11	13	10	05	16	17	18
61	11,771	4,541	74	158	130	444	1,108,486	1,966,797	4,878	432,141
62	11,195	7,858	114	186	84	384	1,038,462	1,138,221	253,671	128,302
63	29,464	4,749	104	247	92	443	1,114,842	2,827,282	349,604	56,456
64	24,499	5,993	83	175	95	353	746,974	2,136,618	321,582	83,802
65	U/A	U/A	U/A	U/A	U/A	U/A	U/A	U/A	U/A	U/A
66	19,638	8,548	40	126	24	190	950,057	1,546,913	383,035	91,769
67	29,419	16,202	118	208	136	462	1,433,690	3,270,224	49,675	69,600
68	27,156	18,127	47	79	57	183	867,538	1,758,711	91,435	109,079
69	15,241	7,559	41	76	60	180	555,557	1,687,094	205,507	17,063
70	14,164	6,714	41	90	74	217	934,232	1,825,727	U/A	266,598
71	16,548	10,177	129	169	94	369	1,401,104	2,482,048	383,685	0
72	25,277	13,600	185	242	72	449	2,137,775	3,332,966	U/A	0
73	18,053	9,363	93	171	91	355	1,609,602	2,368,045	175,714	0
74	8,425	7,259	108	225	50	383	2,695,133	2,417,129	U/A	0
75	10,679	8,738	61	144	66	271	792,435	2,307,609	40,606	0
76	4,923	6,872	44	151	23	218	1,053,014	2,041,867	17,706	0
77	11,301	5,125	46	77	25	148	953,407	1,297,393	27,241	131,112
78	25,038	8,547	71	105	82	258	892,545	2,314,232	38,766	19,000
79	22,398	15,860	117	266	142	525	2,492,140	3,750,774	368,972	376,278
80	6,405	9,372	38	127	14	179	1,007,752	1,883,371	U/A	0

N/A - Not Applicable U/A - Unavailable

ARL LIBRARY DATA TABLE

N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NORTHWESTERN
2,971,774	111,868	1,320,641	1,086,866	216,661	3,714,108	446,388	6,772,138	NOTRE DAME
4,821,189	295,500	3,192,264	3,868,245	2,743,643	8,804,449	1,295,194	16,171,536	OHIO STATE
2,626,793	71,717	1,381,486	1,061,018	515,150	2,959,212	756,703	6,611,369	OKLAHOMA
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	OKLAHOMA STATE
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	OREGON
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	PENNSYLVANIA
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	PENNSYLVANIA STATE
4,213,361	179,253	2,553,501	2,551,192	658,443	5,763,36	1,745,047	11,901,597	PITTSBURGH
5,112,262	345,597	3,912,524	4,241,426	469,730	8,614,680	1,045,474	15,968,013	PRINCETON
3,140,710	125,178	1,979,189	1,900,734	448,443	4,270,356	1,160,709	8,696,853	PURDUE
3,112,587	110,885	N/A	N/A	178,088	4,961,746	414,279	7,999,497	QUEEN'S
2,409,643	[illegible]	[illegible]	[illegible]	180,539	[illegible]	[illegible]	[illegible]	RICE
3,264,34	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	ROCHESTER
6,988,164	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	RUTGERS
2,891,193	99,491	1,981,196	2,319,043	168,177	3,891,519	548,142	7,359,902	SASKATCHEWAN

N/A - Not Applicable U/A - Unavailable

ARL LIBRARY DATA TABLE

COLLECTIONS

INSTITUTION		Libr. No.	Volumes In Library	Volumes Added (Gross)	Volumes Added (Net)	Mono-graphs Purchased	Current Serials Purchased	Current Serials Not Purchased	Current Serials Total	Total Microform Units In Library
			1	2	3	4	5	6	7	8
SOUTH CAROLINA	LM+	81	2,367,144	74,903	74,423	U/A	U/A	U/A	19,009	2,982,832
SOUTHERN CALIFORNIA	BLM+	82	2,580,183	55,566	46,333	35,485	U/A	U/A	37,297	2,954,438
SOUTHERN ILLINOIS	GL+	83	2,039,345	46,037	42,336	17,464	U/A	U/A	21,275	2,431,634
STANFORD	BLM+	84	5,753,147	320,601	118,470	U/A	U/A	U/A	56,343	3,343,162
SUNY-ALBANY	GB+	85	1,253,476	37,432	28,172	23,736	U/A	U/A	14,756	2,446,255
SUNY-BUFFALO	LM+	86	2,534,391	60,888	41,889	25,190	18,085	5,179	23,264	3,611,446
SUNY-STONY BROOK	LM+	87	1,654,860	42,737	40,772	27,615	U/A	U/A	11,211	2,752,667
SYRACUSE	LM+	88	2,285,707	43,468	38,531	17,503	20,614	U/A	20,614	3,408,965
TEMPLE	GBLM+	89	2,034,523	38,777	34,731	17,870	13,000	2,171	15,171	1,447,932
TENNESSEE	L+	90	1,833,491	42,320	41,066	20,619	15,950	4,811	20,761	2,541,397
TEXAS	L+	91	6,066,136	181,571	177,360	U/A	U/A	U/A	78,446	4,220,837
TEXAS A&M	GM+	92	1,840,334	55,598	54,083	24,123	14,821	2,267	17,088	3,629,159
TORONTO	LM+	93	5,821,745	181,590	123,470	U/A	25,324	8,729	34,053	1,102,847
TULANE	GBLM+	94	1,759,026	44,575	43,133	27,945	U/A	U/A	16,767	1,875,476
UTAH	G	95	1,757,847	53,739	52,374	U/A	11,420	2,918	14,338	2,347,624
VANDERBILT	GLM+	96	1,810,919	60,993	49,540	U/A	U/A	U/A	19,348	1,620,546
VIRGINIA	GLM+	97	3,091,445	102,040	88,379	59,376	22,928	2,765	25,693	4,095,457
VPI & SU	+	98	1,673,005	46,367	40,122	23,603	15,812	2,600	18,412	4,120,423
WASHINGTON	LM+	99	4,815,209	152,461	50,868	32,482	U/A	U/A	49,282	5,170,917
WASHINGTON STATE	+	100	1,561,376	34,616	33,444	18,225	U/A	U/A	21,962	2,537,760

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G - Government Documents Not Included in Serials Count
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N/A - Not Applicable
+ - See Footnotes
b - Bibliographic Count
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ARL LIBRARY DATA TABLE

Libr No.	INTERLIBRARY LOANS		PERSONNEL (FTE)				EXPENDITURES			
	Total Loaned	Total Borrowed	Prof. Staff	Non-Prof. Staff	Student Assts.	Total Staff	Monographs	Current Serials	Other Library Materials	Misc. Materials Expend.
	9	10	11	12	13	14	15	16	17	18
81	10,043	8,422	61	98	35	194	1,081,642	1,868,799	U/A	0
82	5,105	4,682	110	147	114	371	1,481,226	2,725,844	46,309	36,122
83	55,594	8,240	50	97	103	250	644,370	1,950,841	76,889	10,306
84	18,481	9,015	165	346	99	610	4,026,834	3,712,619	U/A	U/A
85	21,059	8,608	47	84	36	167	653,954	1,553,435	7,113	239,140
86	34,913	10,547	91	115	87	293	871,654	2,323,416	248,937	204,700
87	23,664	6,801	55	125	44	224	899,116	2,043,232	121,295	225,870
88	7,005	5,722	69	146	54	269	1,066,117	1,921,396	71,955	0
89	10,182	6,683	69	118	45	232	1,012,249	1,500,652	88,466	261,421
90	16,113	7,050	61	146	48	255	882,624	2,092,401	32,628	32,060
91	19,750	9,147	147	368	74	589	2,501,923	3,047,452	U/A	U/A
92	45,164	17,833	69	150	85	304	986,332	2,333,269	269,622	10,947
93	18,995	8,852	157	480	79	716	3,641,258	3,259,495	U/A	U/A
94	11,238	10,506	51	101	28	180	1,106,073	1,763,945	87,686	176,359
95	12,046	7,611	49	112	68	229	878,883	2,059,288	310,143	0
96	21,096	10,116	85	147	71	303	976,211	2,074,992	68,662	0
97	27,697	8,366	97	194	75	366	1,578,072	2,712,624	746,961	0
98	16,252	5,299	59	113	49	221	835,761	2,144,636	U/A	199,083
99	68,735	5,586	122	239	132	493	1,608,300	4,001,043	79,444	86,668
100	24,401	4,331	45	112	52	209	700,501	1,946,829	33,164	0

N/A - Not Applicable U/A - Unavailable

ARL LIBRARY DATA TABLE

EXPENDITURES

Total Library Materials	Current Periodicals	Number of Salaried Staff	Salaries & Wages Staff Only	Salaries & Wages Student Assistants	Total Salaries & Wages	Other Operating Expend.	Total Library Expend.	INSTITUTION
23	24	25	26	27	28	29	30	
2,950,441	134,510	1,750,861	1,638,846	270,386	3,660,093	1,786,923	8,531,967	SOUTH CAROLINA
4,289,501	159,532	4,148,545	2,662,214	876,151	7,686,910	2,202,521	14,338,464	SOUTHERN CALIFORNIA
2,682,406	141,337	1,849,744	1,494,768	750,597	4,095,109	932,882	7,851,734	SOUTHERN ILLINOIS
7,739,453	429,697	6,560,911	8,375,110	1,315,155	16,251,176	4,253,971	28,674,297	STANFORD
2,453,441	115,268	1,751,357	1,481,238	782,398	3,441,689	533,220	6,544,051	SUNY-ALBANY
3,648,400	178,000	2,945,419	3,145,062	627,781	5,776,587	1,446,235	11,008,544	SUNY-BUFFALO
3,784,583	172,455	2,583,282	2,664,644	642,711	5,293,941	614,861	9,090,506	SUNY-STONY BROOK
3,059,456	137,021	2,495,191	2,149,294	302,698	4,452,246	1,346,531	8,929,768	SYRACUSE
2,862,788	115,303	1,941,223	1,736,397	301,211	3,978,831	645,315	7,602,237	TEMPLE
3,039,713	117,446	1,835,592	2,011,806	344,689	4,192,087	744,148	8,093,394	TENNESSEE
5,549,375	178,684	4,127,127	5,007,666	771,850	9,906,643	2,290,431	17,925,133	TEXAS
3,600,170	127,927	1,814,559	1,821,725	624,969	4,261,253	1,822,472	9,811,822	TEXAS A&M
6,900,753	249,093	5,783,519	9,221,644	970,675	15,975,937	1,447,907	24,574,320	TORONTO
3,134,063	105,223	1,496,179	1,574,877	190,900	3,003,956	645,140	6,950,382	TULANE
3,238,313	140,326	1,196,433	1,509,932	516,037	3,288,902	690,463	7,367,725	UTAH
3,119,865	156,571	2,543,599	2,076,441	324,458	4,940,985	1,609,941	9,827,362	VANDERBILT
5,037,657	251,507	3,158,617	3,371,161	671,682	7,201,460	2,767,214	15,257,838	VIRGINIA
3,179,480	134,202	1,525,161	1,821,987	327,681	3,674,829	1,062,798	8,051,309	VPI & SU
5,775,455	317,178	3,828,293	4,483,294	1,111,531	9,423,118	3,421,081	18,936,832	WASHINGTON
2,680,494	81,307	1,183,573	2,224,817	456,363	3,864,753	1,216,743	7,843,297	WASHINGTON STATE

N/A - Not Applicable U/A - Unavailable

ARL LIBRARY DATA TABLE

COLLECTIONS

INSTITUTION		Libr No.	Volumes In Library	Volumes Added (Gross)	Volumes Added (Net)	Mono-graphs Purchased	Current Serials Purchased	Current Serials Not Purchased	Current Serials Total	Total Microform Units In Library
			1	2	3	4	5	6	7	8
WASHINGTON U.-ST. LOUIS	GLM+	101	2,221,176	53,549	51,384	26,341	18,456	385	18,841	1,750,903
WATERLOO	+	102	1,630,870	52,492	52,492	34,181	13,795	803	14,598	690,351
WAYNE STATE	bLM+	103	2,309,698	80,239	76,158	34,845	16,823	7,765	24,588	2,044,008
WESTERN ONTARIO	LM+	104	1,912,689	71,644	40,424	38,026	U/A	U/A	18,860	2,207,218
WISCONSIN	GLM+	105	4,908,985	108,834	104,599	U/A	U/A	U/A	48,085	3,143,060
YALE	bGBLM+	106	8,718,619	188,616	180,463	123,418	33,212	19,284	52,496	3,137,720
YORK	L+	107	1,746,261	58,687	49,023	U/A	U/A	U/A	19,582	780,177
BOSTON PUBLIC LIBRARY	G+	108	6,141,482	247,610	138,086	176,130	U/A	U/A	16,704	3,961,122
CANADA INST. FOR SCITECH.	bB+	109	2,194,771	59,271	59,271	26,088	29,790	3,040	32,830	2,056,387
CENTER FOR RESEARCH LIBS.	G+	110	2,932,277	39,271	39,271	26,226	U/A	U/A	13,045	1,155,281
LIBRARY OF CONGRESS	L+	111	21,491,878	283,454	277,651	100,088	37,866	U/A	137,500	7,496,162
LINDA HALL LIBRARY	G+	112	631,756	18,500	18,466	9,800	11,100	2,100	13,200	43,500
NATL. AGRICULTURAL LIB.	+	113	2,029,323	35,889	35,614	8,437	6,000	18,000	24,000	932,060
NATL. LIBRARY OF CANADA	b+	114	1,249,974	60,918	57,786	7,938	7,246	17,143	24,389	3,122,241
NATL. LIBRARY OF MEDICINE	M+	115	1,916,769	43,960	43,366	10,106	22,805	3,580	26,385	271,276
NEWBERRY LIBRARY	G+	116	1,426,879	6,853	6,852	3,077	U/A	U/A	6,200	251,567
NEW YORK PUBLIC LIBRARY	+	117	6,279,773	95,504	82,353	179,625	U/A	U/A	152,114	3,472,494
NEW YORK STATE LIBRARY	LM+	118	2,109,165	45,829	45,592	13,815	10,155	11,921	22,076	4,448,767
SMITHSONIAN INSTITUTION	GB+	119	1,078,935	28,803	26,521	62,409	3,987	11,090	15,077	U/A

B - Includes Branch Campuses
G - Government Documents Not Included in Serials Count
L - Includes Law Library
M - Includes Medical Library
N/A - Not Applicable
+ - See Footnotes
b - Bibliographic Count
U/A - Unavailable

ARL LIBRARY DATA TABLE

Lib No										
101										
102										
103										
104										
105	80,978	13,931	160	227	136	508	1,168,660	1,301,438	995,274	
106	11,421	3,426	195	385	200	680	2,294,700	4,045,900	1,284,100	
107	8,824	1,953	51	138	54	245	1,138,079	1,499,114	196,697	
108	27,551	870	293	387	35	645	4,321,961	1,296,780	550,000	
109										
110										
111										
112										
113	111,933	23,807	124	78	10	212	436,080	1,136,617	28,684	
114	75,220	968	221	282	U/A	503	460,280	589,101	1,245,482	
115	158,840	76	143	104	20	267	705,500	2,621,600	200,200	
116	881	156	51	52	N/A	103	332,600	140,598	U/A	
117										
118										
119										

N/A - Not Applicable U/A - Unavailable

ARL LIBRARY DATA TABLE

ARL LIBRARY DATA TABLE

TOTALS

COLLECTIONS

Volumes In Library	Volumes Added (Gross)	Volumes Added (Net)	Monographs Purchased	Current Serials Purchased	Current Serials Not Purchased	Current Serials Total	Total Microform Units In Library
1	2	3	4	5	6	7	8
			UNIVERSITY MEDIAN				
2,157,032	61,441	53,059	27,615	16,028	3,147	20,688	2,414,426
			UNIVERSITY HIGH				
11,781,270	336,649	239,291	123,418	47,209	32,006	103,944	5,473,071
			UNIVERSITY LOW				
1,182,764	33,112	15,161	5,652	8,154	1	9,103	188,660
			TOTALS - UNIVERSITY LIBRARIES				
294,754,582	8,491,734	7,058,673	2,733,033	1,186,972	338,663	2,931,318	259,290,523
			TOTALS - NON-UNIVERSITY LIBRARIES				
49,482,982	965,862	830,829	623,739	128,949	66,874	383,886	27,210,857
			GRAND TOTALS - ALL ARL LIBRARIES				
344,237,564	9,457,596	7,889,502	3,356,772	1,315,921	405,537	3,414,838	286,501,380

ARL LIBRARY DATA TABLE

TOTALS

INTERLIBRARY LOANS		PERSONNEL (FTE)				EXPENDITURES			
Total Loaned	Total Borrowed	Prof. Staff	Non. Prof. Staff	Student Assts.	Total Staff	Monographs	Current Serials	Other Library Materials	Misc. Materials Expend.
9	10	11	12	13	14	15	16	17	18
				UNIVERSITY MEDIAN					
19,694	8,548	72	142	64	271	1,106,073	2,092,401	106,361	51,848
				UNIVERSITY HIGH					
168,755	176,750	336	590	314	1,065	4,740,865	4,369,333	1,373,143	1,515,300
				UNIVERSITY LOW					
2,241	869	30	46	10	122	438,844	1,027,994	3,663	0
				TOTALS - UNIVERSITY LIBRARIES					
2,700,084	1,151,824	8,881	17,533	7,700	34,114	145,961,180	238,656,511	15,048,821	10,436,029
				TOTALS - NON-UNIVERSITY LIBRARIES					
1,061,035	39,664	3,816	3,620	202	7,436	11,974,370	15,331,625	4,658,524	829,117
				GRAND TOTALS - ALL ARL LIBRARIES					
3,761,119	1,191,488	12,697	21,153	7,902	41,550	157,935,550	253,988,136	19,707,345	11,265,146

ARL LIBRARY DATA TABLE

TOTALS

EXPENDITURES

Total Library Materials	Contract Binding	Salaries & Wages Prof.	Salaries & Wages Non-Prof.	Salaries & Wages Student Assistants	Total Salaries & Wages	Other Operating Expend.	Total Library Expend.
19	20	21	22	23	24	25	26
UNIVERSITY MEDIAN							
3,551,954	155,902	2,330,258	2,444,423	521,180	5,278,104	1,364,558	10,275,385
UNIVERSITY HIGH							
10,568,940	846,442	11,155,810	10,517,661	4,703,230	22,694,586	6,795,569	40,905,537
UNIVERSITY LOW							
1,845,535	36,723	1,123,162	536,066	105,991	1,892,468	353,226	4,525,114
TOTALS - UNIVERSITY LIBRARIES							
420,882,008	20,627,795	275,597,815	288,540,970	67,041,237	663,377,285	170,649,989	1,275,537,077
TOTALS - NON-UNIVERSITY LIBRARIES							
40,220,648	2,084,963	17,916,204	14,694,139	1,659,705	237,654,655	155,720,244	435,680,510
GRAND TOTALS - ALL ARL LIBRARIES							
461,102,656	22,712,758	293,514,019	303,235,109	68,700,942	901,031,940	326,370,233	1,711,217,587

ANALYSIS OF SELECTED VARIABLES OF UNIVERSITY LIBRARIES

The percentages and ratios below are intended to summarize the basic data in the ARL Library Data Tables. The high, median, and low figures indicate the range as well as the midpoint for ARL's 107 university library members.

Category	High	Median	Low
1. Professional Staff as percent of Total Staff	37	26	19
2. Nonprofessional Staff as percent of Total Staff	72	51	14
3. Student Assistant Staff as percent of Total Staff	59	22	4
4. Ratio of Professional Staff to Non-professional Staff (excluding student assistants)	1.9:1	0.5:1	0.3:1
5. Ratio of Items Loaned to Items Borrowed	14.2:1	2.1:1	0.6:1
6. Serials Expenditures as percent of Materials Expenditures	75	59	38
7. Materials Expenditures as percent of Total Operating Expenditures	48	34	22
8. Contract Binding as percent of Total Operating Expenditures	2.7	1.5	0.6
9. Salary and Wage Expenditures as percent of Total Operating Expenditures	67	51	40
10. Other Operating Expenditures as percent of Total Operating Expenditures	24	13	4
11. Unit cost of monographs (per volume)	77.64	36.90	18.59
12. Unit cost of serials (per title)	190.18	128.22	71.28

Median figures are useful indicators when there is wide dispersion within a distribution. Because the mean represents a "balance point," a few very high or low scores may sometimes pull the mean away from the actual point at which values cluster. Medians, on the other hand, are a measure of central tendency, focusing on the midpoint in a distribution, and are thus preferable for describing ARL libraries.

Ph.D., FACULTY, AND ENROLLMENT STATISTICS*

INSTITUTION	Ph.D.'s Awarded	Ph.D. Fields	Faculty	ENROLLMENTS - FALL 1988			
				Total Full-time**	Total FTE Part-time**	Graduate Full-time	Graduate FTE Part-time
ALABAMA	85	42	760	15,766	2,744	1,781	1,387
ALBERTA	194	55	1,770	24,618	4,186	2,818	1,025
ARIZONA	326	89	1,475	25,226	9,499	3,669	4,460
ARIZONA STATE +	158	37	1,357	27,451	15,975	4,065	7,585
BOSTON	152	46	1,033	21,085	7,835	6,195	3,617
BRIGHAM YOUNG	220	47	1,306	23,556	7,761	1,684	1,008
BRITISH COLUMBIA	168	83	1,930	21,576	4,504	3,316	872
BROWN	147	30	498	5,585	372	1,527	128
CALIFORNIA, BERKELEY	760	118	1,471	28,454	3,158	8,278	738
CALIFORNIA, DAVIS +	274	54	963	19,650	2,118	4,960	238
CALIFORNIA, IRVINE	121	30	1,108	15,874	0	2,842	0
CALIFORNIA, LOS ANGELES	468	68	1,636	33,358	2,372	11,601	246
CALIFORNIA, RIVERSIDE	83	26	474	6,470	1,017	1,134	100
CALIFORNIA, SAN DIEGO +	195	44	998	16,128	1,098	3,019	102
CALIFORNIA, SANTA BARBARA	159	57	941	16,902	1,124	1,684	483
CASE WESTERN RESERVE +	172	45	1,604	5,740	2,592	3,213	2,102
CHICAGO	310	64	1,199	8,835	1,574	6,132	1,531
CINCINNATI +	153	56	1,051	21,213	10,219	3,742	2,785
COLORADO	231	40	928	21,978	2,094	3,792	658
COLORADO STATE	173	38	1,204	17,601	2,284	2,309	787
COLUMBIA	366	54	2,174	13,959	3,337	9,089	2,371
CONNECTICUT	198	67	1,136	17,993	7,381	3,020	4,130
CORNELL	467	77	333	18,088	46	4,122	18
DARTMOUTH	29	11	840	4,692	85	1,014	66
DELAWARE	114	33	913	13,683	1,292	1,229	993
DUKE +	165	37	1,417	9,749	340	3,737	328
EMORY	122	44	1,418	7,984	1,301	2,791	1,140
FLORIDA	303	68	2,839	28,127	5,155	5,600	2,362
FLORIDA STATE +	250	63	997	20,787	5,120	3,033	2,320
GEORGETOWN	81	21	1,237	9,105	2,411	3,522	2,074
GEORGIA	233	55	1,726	23,269	3,907	4,117	1,613
GEORGIA TECH	125	61	571	10,706	1,181	2,063	611
GUELPH	59	28	731	10,963	732	1,123	67
HARVARD +	305	67	1,471	17,310	6,883	10,298	3,413
HAWAII	150	45	1,121	13,181	5,243	2,573	2,974
HOUSTON	53	42	828	17,414	12,958	3,762	6,460
HOWARD	57	23	1,174	9,634	1,983	1,791	815
ILLINOIS, CHICAGO +	154	47	1,711	17,068	6,925	4,465	3,573
ILLINOIS, URBANA	624	88	2,018	32,633	3,403	6,797	2,380
INDIANA	276	109	1,380	29,352	5,511	3,619	2,493
IOWA	270	55	1,639	22,747	7,254	5,288	3,890
IOWA STATE	257	81	1,275	22,263	4,212	2,642	2,342
JOHNS HOPKINS	204	60	711	5,843	6,808	3,051	1,610

* These figures were reported on ARL questionaires and have not been verified with the Center for Statistics

** Includes both undergraduate and graduate students.

U/A - Unavailable

\+ - See footnotes

Ph.D., FACULTY, AND ENROLLMENT STATISTICS*

INSTITUTION	Ph.D.'s Awarded	Ph.D. Fields	Faculty	ENROLLMENTS - FALL 1988 Total Full-time**	Total FTE Part-time**	Graduate Full-time	Graduate FTE Part-time
KANSAS +	224	70	1,492	22,352	6,051	4,285	4,344
KENT STATE	113	18	1,025	19,908	9,968	1,203	3,023
KENTUCKY	56	57	1,502	16,941	5,289	1,847	2,189
LAVAL	120	57	1,539	22,903	11,440	3,391	2,372
LOUISIANA STATE	161	54	1,226	22,388	4,962	3,384	1,719
MCGILL +	188	55	1,910	18,254	3,153	3,775	1,264
MCMASTER	83	35	1,019	11,985	4,054	1,402	798
MANITOBA	87	40	1,301	12,886	7,338	1,624	862
MARYLAND +	391	69	1,833	27,221	9,460	3,623	5,156
MASSACHUSETTS +	226	49	1,293	21,724	6,147	2,802	3,924
MIT	456	84	1,074	8,995	505	4,745	430
MIAMI	89	43	1,500	11,397	2,431	3,568	1,455
MICHIGAN	527	144	2,430	32,449	663	10,574	1,022
MICHIGAN STATE	428	111	1,936	35,980	8,500	4,674	2,777
MINNESOTA +	527	84	1,621	27,270	34,286	7,220	6,519
MISSOURI	236	60	919	19,388	4,046	3,307	2,602
NEBRASKA	236	29	1,087	18,261	5,724	1,702	2,119
NEW MEXICO	134	33	1,220	15,170	9,355	1,835	2,004
NEW YORK	376	160	1,018	18,592	17,988	7,223	9,619
NORTH CAROLINA	268	61	2,002	19,424	4,202	4,732	3,156
NORTH CAROLINA STATE	224	43	1,431	15,614	6,063	1,449	2,411
NORTHWESTERN +	U/A	U/A	U/A	U/A	U/A	U/A	U/A
NOTRE DAME +	99	22	863	9,551	17	1,953	U/A
OHIO STATE	603	97	1,944	42,291	11,378	5,898	4,490
OKLAHOMA	254	56	1,370	16,005	5,106	2,255	2,943
OKLAHOMA STATE	127	37	1,293	19,613	6,859	1,835	2,606
OREGON +	184	48	642	15,769	3,071	2,917	1,435
PENNSYLVANIA +	319	69	1,834	17,866	4,303	8,521	1,983
PENNSYLVANIA STATE	396	93	2,649	53,014	15,558	4,133	3,142
PITTSBURGH +	347	75	2,430	18,462	10,062	5,066	4,597
PRINCETON +	227	42	673	6,181	0	1,684	0
PURDUE +	420	54	1,410	30,430	1,430	3,824	674
QUEEN'S	73	28	1,023	10,262	3,425	1,812	529
RICE	120	26	471	4,117	U/A	1,283	0
ROCHESTER	180	54	1,279	7,759	1,883	2,289	1,496
RUTGERS	234	57	1,961	32,451	15,361	4,399	8,033
SASKATCHEWAN	62	54	1,171	13,703	3,652	1,194	353
SOUTH CAROLINA	191	62	1,183	12,991	3,043	3,651	6,822
SOUTHERN CALIFORNIA +	387	71	1,717	19,842	9,815	5,376	8,168
SOUTHERN ILLINOIS +	140	23	1,040	19,155	5,072	753	2,755
STANFORD	545	77	1,336	11,835	2,552	5,347	1,420
SUNY-ALBANY	76	22	640	10,780	1,282	1,873	2,626
SUNY-BUFFALO +	249	65	1,973	19,841	8,164	5,162	3,565

* These figures were reported on ARL questionaires and have not been verified with the Center for Statistics

** Includes both undergraduate and graduate students.

U/A - Unavailable

\+ - See footnotes

Ph.D., FACULTY, AND ENROLLMENT STATISTICS*

INSTITUTION	Ph.D.'s Awarded	Ph.D. Fields	Faculty	ENROLLMENTS - FALL 1988			
				Total Full-time**	Total FTE Part-time**	Graduate Full-time	Graduate FTE Part-time
SUNY-STONY BROOK	190	23	1,264	12,586	4,142	2,951	2,525
SYRACUSE +	170	85	944	16,166	5,920	2,461	3,959
TEMPLE +	121	51	1,743	22,105	11,238	4,306	5,387
TENNESSEE	209	57	1,285	18,885	5,683	2,983	2,815
TEXAS +	583	75	1,906	43,363	6,744	10,441	1,521
TEXAS A&M	420	118	2,345	34,894	4,269	5,316	2,004
TORONTO	356	70	2,804	36,978	15,562	5,947	3,447
TULANE	68	40	915	8,520	2,271	3,024	447
UTAH	171	60	914	15,384	8,667	3,145	1,129
VANDERBILT +	137	38	1,490	8,222	738	3,114	618
VIRGINIA	217	45	968	16,323	4,479	5,284	3,313
VPI & SU +	245	53	1,515	20,916	3,364	3,375	2,698
WASHINGTON	392	62	1,663	26,954	6,506	6,854	2,036
WASHINGTON STATE	151	40	748	14,902	1,503	1,803	749
WASHINGTON U.-ST. LOUIS +	117	51	603	7,951	3,547	3,026	1,835
WATERLOO	121	48	787	14,595	8,560	1,426	396
WAYNE STATE	137	65	1,614	14,417	16,334	4,737	6,268
WESTERN ONTARIO	88	31	1,445	16,154	3,245	1,914	197
WISCONSIN	689	120	2,161	36,617	6,747	9,114	2,108
YALE +	317	55	1,877	10,395	498	5,263	358
YORK	57	55	1,195	21,028	15,971	1,757	1,473

* These figures were reported on ARL questionaires and have not been verified with the Center for Statistics

** Includes both undergraduate and graduate students.

U/A - Unavailable

+ - See footnotes

SUMMARY OF RANK ORDER TABLES FOR UNIVERSITY LIBRARIES

The table below presents the rank for each university library in each of the seventeen categories for which rank order tables are prepared. As a further indication of the relative position of each institution, note that, in the individual rank order tables on the following pages, "group codes" are used. This is done because, in a number of cases, there is a relatively insignificant difference between two institutions which are nevertheless given two different rankings. The "coarser" ranking provided by clustering institutions into groups (based upon ranges) more realistically describes a library's relative standing.

The table numbers in the chart below refer to the following categories:

Table 1 - Volumes in Library (106)
Table 2 - Volumes Added (Gross) (106)
Table 3 - Current Serials (Total) (106)
Table 4 - Microform Holdings (Total) (106)
Table 5 - Materials Expenditures (106)
Table 6 - Salaries & Wages Expenditures (106)
Table 7 - Other Operating Expenditures (106)
Table 8 - Total Operating Expenditures (106)
Table 9 - Monographs Purchased (Volumes) (79)
Table 10 - Expenditures For Monographs (103)
Table 11 - Serials Purchased (Titles) (66)
Table 12 - Expenditures for Serials (105)
Table 13 - Total Items Loaned (106)
Table 14 - Total Items Borrowed (106)
Table 15 - Professional Staff (FTE) (106)
Table 16 - Nonprofessional Staff (FTE) (106)
Table 17 - Total Staff (FTE) (106)

INSTITUTION	TABLES																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
ALABAMA	76	90	75	88	100	104	80	103	75	101	28	77	99	91	79	103	100
ALBERTA	29	35	60	44	54	23	42	33	24	55	23	31	14	14	37	10	21
ARIZONA	22	23	31	13	19	37	47	34	14	20	U/A	26	15	46	27	31	23
ARIZONA STATE	40	11	20	30	12	39	36	30	U/A	6	U/A	19	21	62	26	19	26
BOSTON	85	71	30	41	64	63	58	60	65	92	24	54	93	30	57	53	51
BRIGHAM YOUNG	59	41	67	79	53	66	67	63	13	26	53	90	76	11	35	106	37
BRITISH COLUMBIA	30	18	46	98	31	19	69	29	9	15	30	42	36	24	22	15	19
BROWN	53	77	94	94	88	73	19	61	42	50	61	91	90	86	42	76	57
CALIFORNIA, BERKELEY	4	3	1	6	5	2	5	2	U/A	5	U/A	2	11	3	4	9	2
CALIFORNIA, DAVIS	47	31	12	42	17	25	56	24	3	31	3	7	16	60	53	23	36
CALIFORNIA, IRVINE	101	65	83	87	56	50	48	52	52	57	38	55	58	19	73	72	77
CALIFORNIA, LOS ANGELES	7	4	3	1	3	3	3	3	U/A	2	U/A	11	6	32	2	7	3
CALIFORNIA, RIVERSIDE	99	80	106	91	103	87	93	99	45	74	66	102	94	31	105	87	93
CALIFORNIA, SAN DIEGO	66	52	26	84	38	29	31	32	19	25	25	79	47	36	37	35	35
CALIFORNIA, SANTA BARBARA	63	50	47	46	73	38	46	44	30	53	49	68	91	26	66	50	64

U/A - Unavailable ( ) Number of institutions reporting data

INSTITUTION	TABLES																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
CASE WESTERN RESERVE	96	106	98	104	97	97	74	97	76	98	52	82	17	66	64	99	97
CHICAGO	12	28	13	83	30	32	11	25	8	22	U/A	28	8	51	48	18	29
CINCINNATI	86	60	63	59	42	47	53	46	U/A	48	U/A	27	37	18	52	59	49
COLORADO	50	66	89	90	45	62	78	59	38	71	43	48	51	23	79	83	80
COLORADO STATE	106	84	102	106	95	103	77	101	51	84	65	99	52	12	100	101	105
COLUMBIA	8	9	7	12	9	7	9	7	U/A	8	1	8	35	55	5	5	6
CONNECTICUT	52	48	59	49	36	40	32	37	U/A	U/A	U/A	46	31	22	55	88	72
CORNELL	11	13	8	4	11	13	6	10	U/A	U/A	U/A	U/A	32	17	5	11	11
DARTMOUTH	75	70	55	61	72	90	63	81	53	60	29	57	95	83	96	88	101
DELAWARE	65	53	41	69	41	89	62	67	U/A	18	U/A	67	82	96	67	69	71
DUKE	19	27	27	86	25	33	30	31	15	21	U/A	23	18	68	29	37	40
EMORY	72	59	79	74	40	61	40	48	U/A	39	U/A	52	43	75	65	47	60
FLORIDA	35	21	28	43	27	21	64	26	16	38	7	43	24	76	24	34	22
FLORIDA STATE	77	78	68	24	52	96	100	90	U/A	36	U/A	63	45	81	73	88	75
GEORGETOWN	82	45	49	70	62	46	41	47	34	44	19	89	100	98	49	44	45
GEORGIA	33	22	9	11	29	51	49	40	U/A	46	2	15	27	82	43	26	32
GEORGIA TECH	92	101	40	36	104	106	99	106	79	103	32	103	65	105	96	105	106
GUELPH	70	61	96	92	106	98	106	105	62	100	U/A	105	106	100	106	79	103
HARVARD	1	1	2	2	1	1	1	1	U/A	1	U/A	1	12	56	1	1	1
HAWAII	45	47	21	18	82	58	86	70	U/A	62	12	81	86	103	63	93	69
HOUSTON	94	97	82	26	90	99	98	102	49	94	37	87	87	41	90	97	89
HOWARD	83	56	34	45	44	52	26	42	44	61	8	25	105	106	41	62	78
ILLINOIS, CHICAGO	93	62	71	76	57	45	61	53	36	45	U/A	86	3	2	43	35	46
ILLINOIS, URBANA	3	6	4	22	13	15	22	15	2	9	U/A	16	2	1	9	13	10
INDIANA	18	32	36	80	18	27	24	21	12	13	11	37	9	13	15	24	15

U/A - Unavailable ( ) Number of institutions reporting data

INSTITUTION	TABLES																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
IOWA	28	29	39	25	28	56	91	51	10	16	15	44	10	49	36	76	56
IOWA STATE	74	89	69	62	79	78	105	89	60	72	50	64	41	89	96	73	83
JOHNS HOPKINS	34	51	56	82	32	34	10	28	32	30	39	40	59	4	31	32	39
KANSAS	31	46	35	63	46	49	29	41	20	35	18	47	20	7	33	58	42
KENT STATE	58	103	105	99	105	64	27	69	66	99	64	104	74	37	82	84	63
KENTUCKY	55	87	62	58	71	77	92	82	59	85	31	61	46	25	57	66	50
LAVAL	84	43	87	101	96	31	75	50	47	83	60	94	68	33	55	29	53
LOUISIANA STATE	42	36	57	65	60	80	89	79	U/A	86	33	41	78	73	71	73	52
MCGILL	39	25	74	97	39	24	97	35	4	40	44	65	30	65	43	25	41
MCMASTER	103	85	101	105	50	68	104	73	37	34	58	62	84	42	102	55	91
MANITOBA	98	102	97	96	102	60	79	75	70	89	57	93	77	84	73	51	73
MARYLAND	60	49	43	10	47	35	45	38	35	70	17	45	56	99	33	43	34
MASSACHUSETTS	44	42	80	77	77	55	76	64	21	58	41	74	67	70	73	85	90
MIT	54	76	52	78	91	48	43	56	67	90	63	92	70	104	37	54	58
MIAMI	89	75	86	95	58	67	60	65	46	81	U/A	29	48	28	50	59	61
MICHIGAN	5	14	6	14	6	9	28	9	U/A	U/A	4	4	80	35	12	8	8
MICHIGAN STATE	23	15	32	20	49	36	18	36	26	42	42	51	62	72	43	64	38
MINNESOTA	15	26	16	39	14	10	14	11	U/A	17	5	9	1	21	13	30	15
MISSOURI	41	95	77	5	94	83	71	88	74	88	48	80	23	47	77	66	67
NEBRASKA	61	81	72	37	80	93	85	93	64	75	45	71	75	43	82	79	86
NEW MEXICO	88	73	84	15	55	42	57	49	25	49	U/A	76	61	38	50	39	33
NEW YORK	27	40	29	50	20	22	13	17	23	29	10	14	83	64	19	32	25
NORTH CAROLINA	20	12	17	33	24	20	34	23	18	27	U/A	21	22	88	18	22	20
NORTH CAROLINA STATE	104	105	95	32	84	81	52	74	77	93	56	85	38	93	100	69	82
NORTHWESTERN	U/A	U/A	U/A	U/A	U/A	U/A	U/A	U/A	U/A	U/A	U/A	U/A	U/A	U/A	U/A	U/A	U/A

U/A - Unavailable ( ) Number of institutions reporting data

INSTITUTION	TABLES																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
NEW YORK	27	40	29	50	20	22	13	17	23	29	10	14	83	64	19	32	25
NORTH CAROLINA	20	12	17	33	24	20	34	23	18	27	U/A	21	22	88	18	22	20
NORTH CAROLINA STATE	104	105	95	32	84	81	52	74	77	93	56	85	38	93	100	69	82
NORTHWESTERN	U/A	U/A	U/A	U/A	U/A	U/A	U/A	U/A	U/A	U/A	U/A	U/A	U/A	U/A	U/A	U/A	U/A
NOTRE DAME	62	38	81	89	78	95	101	96	43	68	U/A	96	54	53	102	62	94
OHIO STATE	16	24	22	29	26	17	17	18	7	41	13	12	25	8	16	21	17
OKLAHOMA	49	94	73	38	87	102	81	98	58	80	26	84	29	9	91	100	96
OKLAHOMA STATE	97	79	100	100	98	101	55	95	78	102	59	88	69	69	85	104	95
OREGON	68	93	51	72	76	92	66	85	41	69	34	78	71	63	85	96	85
PENNSYLVANIA	21	33	24	55	34	26	12	20	17	43	U/A	30	63	6	21	40	28
PENNSYLVANIA STATE	26	34	25	31	16	16	25	16	U/A	14	U/A	10	33	16	25	12	18
PITTSBURGH	32	30	44	56	35	44	39	39	U/A	28	U/A	34	60	40	29	38	31
PRINCETON	17	17	23	51	21	18	33	19	5	7	U/A	33	97	71	22	17	24
PURDUE	67	57	50	71	67	71	65	71	73	87	22	39	72	50	67	51	53
QUEEN'S	80	99	85	75	70	69	102	80	33	59	U/A	60	104	77	96	41	83
RICE	100	100	99	67	101	105	83	104	U/A	67	55	101	73	102	94	102	104
ROCHESTER	36	67	93	54	63	85	72	76	57	76	51	38	34	54	54	85	58
RUTGERS	24	16	33	19	7	8	21	8	6	11	U/A	5	42	10	17	14	12
SASKATCHEWAN	102	72	104	66	83	84	94	92	61	64	62	73	101	39	104	59	99
SOUTH CAROLINA	43	39	64	34	81	88	37	72	U/A	54	U/A	75	89	58	67	94	92
SOUTHERN CALIFORNIA	37	64	18	35	33	28	23	27	27	37	U/A	22	103	92	20	44	27
SOUTHERN ILLINOIS	56	83	48	53	92	76	73	83	72	97	U/A	69	7	61	88	95	64
STANFORD	10	2	10	23	4	4	4	4	U/A	3	U/A	6	57	45	7	6	7
SUNY-ALBANY	105	98	90	52	99	91	96	100	55	96	U/A	95	50	52	91	98	102
SUNY-BUFFALO	38	55	42	17	48	43	51	45	50	79	21	36	19	27	32	73	47

U/A - Unavailable ( ) Number of institutions reporting data

INSTITUTION	TABLES																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
SUNY-STONY BROOK	90	91	103	40	61	57	90	66	40	73	U/A	59	40	78	78	64	78
SYRACUSE	48	88	54	21	74	65	54	68	71	56	16	72	98	79	57	47	55
TEMPLE	57	96	88	85	86	79	87	87	69	63	47	97	88	80	57	71	73
TENNESSEE	71	92	53	47	75	75	82	77	63	77	35	53	66	74	67	47	61
TEXAS	6	8	5	7	15	12	20	14	U/A	10	U/A	17	53	44	11	4	9
TEXAS A&M	69	63	76	16	51	72	35	58	54	65	40	35	13	5	57	42	43
TORONTO	9	7	19	93	8	5	50	6	U/A	4	9	13	55	48	8	2	4
TULANE	78	86	78	68	68	100	88	94	39	52	U/A	83	85	29	85	88	98
UTAH	79	68	92	57	65	94	84	91	U/A	78	54	58	79	67	89	79	76
VANDERBILT	73	54	61	81	69	59	44	57	U/A	66	U/A	56	49	34	40	44	44
VIRGINIA	25	20	37	9	22	30	15	22	11	33	14	24	28	59	27	27	30
VPI & SU	87	81	70	8	66	86	68	78	56	82	36	49	64	90	72	76	80
WASHINGTON	14	10	14	3	10	14	8	13	31	32	U/A	3	5	85	14	16	14
WASHINGTON STATE	95	104	45	48	93	82	59	84	68	95	U/A	70	39	97	95	79	86
WASHINGTON U.-ST. LOUIS	51	69	66	73	59	74	16	55	48	91	20	32	44	20	62	68	70
WATERLOO	91	74	91	103	89	70	95	86	29	47	46	100	102	87	91	57	88
WAYNE STATE	46	37	38	64	37	53	38	43	28	19	27	50	26	101	47	88	67
WESTERN ONTARIO	64	44	65	60	43	41	103	54	22	24	U/A	66	92	95	79	27	48
WISCONSIN	13	19	15	27	23	11	7	12	U/A	23	U/A	20	4	15	9	19	13
YALE	2	5	11	28	2	6	2	5	1	12	6	18	81	57	3	3	5
YORK	81	58	58	102	85	54	70	62	U/A	51	U/A	98	96	94	82	56	66

U/A - Unavailable ( ) Number of institutions reporting data

RANK ORDER TABLES OF UNIVERSITY LIBRARIES

RANK ORDER TABLE 1: VOLUMES IN LIBRARY

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group Ranges (in thousands) are:

1- over 9,000
2- 8,000-8,999
3- 7,000-7,999
4- 6,000-6,999
5- 5,000-5,999
6- 4,000-4,999
7- 3,000-3,999
8- 2,000-2,999
9- 1,000-1,999

Gp	Rank	Institution	Value
1	1	HARVARD	11,781,270
2	2	YALE	8,718,619
3	3	ILLINOIS, URBANA	7,561,615
	4	CALIFORNIA, BERKELEY	7,366,672
4	5	MICHIGAN	6,237,521
	6	TEXAS	6,066,136
5	7	CALIFORNIA, LOS ANGELES	5,976,588
	8	COLUMBIA	5,894,135
	9	TORONTO	5,821,745
	10	STANFORD	5,753,147
	11	CORNELL	5,144,830
	12	CHICAGO	5,063,051
6	13	WISCONSIN	4,908,985
	14	WASHINGTON	4,815,209
	15	MINNESOTA	4,537,087
	16	OHIO STATE	4,338,474
	17	PRINCETON	4,175,904
	18	INDIANA	4,045,828
7	19	DUKE	3,757,814
	20	NORTH CAROLINA	3,635,509
	21	PENNSYLVANIA	3,576,227
	22	ARIZONA	3,424,698
	23	MICHIGAN STATE	3,373,215
	24	RUTGERS	3,129,861
	25	VIRGINIA	3,091,445
	26	PENNSYLVANIA STATE	3,043,837
	27	NEW YORK	3,031,621
	28	IOWA	3,018,599
8	29	ALBERTA	2,844,697
	30	BRITISH COLUMBIA	2,817,779
	31	KANSAS	2,793,134
	32	PITTSBURGH	2,789,211
	33	GEORGIA	2,788,311
	34	JOHNS HOPKINS	2,784,642
	35	FLORIDA	2,782,279
	36	ROCHESTER	2,639,518
	37	SOUTHERN CALIFORNIA	2,580,183
	38	SUNY-BUFFALO	2,534,391
	39	MCGILL	2,477,288
	40	ARIZONA STATE	2,466,274
	41	MISSOURI	2,446,491
	42	LOUISIANA STATE	2,408,565
	43	SOUTH CAROLINA	2,367,144
	44	MASSACHUSETTS	2,345,974
	45	HAWAII	2,312,229
	46	WAYNE STATE	2,309,698
	47	CALIFORNIA, DAVIS	2,306,631
	48	SYRACUSE	2,285,707
	49	OKLAHOMA	2,261,724
	50	COLORADO	2,227,963
	51	WASHINGTON U.-ST. LOUIS	2,221,176
	52	CONNECTICUT	2,210,528
	53	BROWN	2,172,889
	54	MIT	2,141,174
	55	KENTUCKY	2,118,822
	56	SOUTHERN ILLINOIS	2,039,345
	57	TEMPLE	2,034,523
	58	KENT STATE	2,010,760
9	59	BRIGHAM YOUNG	1,997,272
	60	MARYLAND	1,993,077
	61	NEBRASKA	1,967,758
	62	NOTRE DAME	1,929,116
	63	CALIFORNIA, SANTA BARBARA	1,927,290
	64	WESTERN ONTARIO	1,912,689
	65	DELAWARE	1,898,511
	66	CALIFORNIA, SAN DIEGO	1,888,207
	67	PURDUE	1,867,691
	68	OREGON	1,844,650
	69	TEXAS A&M	1,840,334
	70	GUELPH	1,837,164
	71	TENNESSEE	1,833,491
	72	EMORY	1,820,956
	73	VANDERBILT	1,810,919
	74	IOWA STATE	1,792,018
	75	DARTMOUTH	1,774,175
	76	ALABAMA	1,772,934
	77	FLORIDA STATE	1,764,116
	78	TULANE	1,759,026
	79	UTAH	1,757,847
	80	QUEEN'S	1,748,868
	81	YORK	1,746,261
	82	GEORGETOWN	1,737,381
	83	HOWARD	1,729,875
	84	LAVAL	1,723,632
	85	BOSTON	1,711,215
	86	CINCINNATI	1,693,173
	87	VPI & SU	1,673,005
	88	NEW MEXICO	1,667,749
	89	MIAMI	1,656,659
	90	SUNY-STONY BROOK	1,654,860
	91	WATERLOO	1,630,870
	92	GEORGIA TECH	1,611,773
	93	ILLINOIS, CHICAGO	1,610,165
	94	HOUSTON	1,598,010
	95	WASHINGTON STATE	1,561,376
	96	CASE WESTERN RESERVE	1,559,365
	97	OKLAHOMA STATE	1,524,543
	98	MANITOBA	1,491,876
	99	CALIFORNIA, RIVERSIDE	1,414,570
	100	RICE	1,403,820
	101	CALIFORNIA, IRVINE	1,395,955
	102	SASKATCHEWAN	1,372,707
	103	MCMASTER	1,338,532
	104	NORTH CAROLINA STATE	1,263,969
	105	SUNY-ALBANY	1,253,476
	106	COLORADO STATE	1,182,764
		NORTHWESTERN	U/A

U/A - Unavailable

RANK ORDER TABLE 2: VOLUMES ADDED (GROSS)

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 250,000 and over
2- 220,000-249,999
3- 190,000-219,999
4- 160,000-189,999
5- 130,000-159,999
6- 100,000-129,999
7- 70,000- 99,999
8- 40,000- 69,999
9- under 39,999

Gp	Rank	Institution	Value
1	1	HARVARD	336,649
	2	STANFORD	320,601
3	3	CALIFORNIA, BERKELEY	195,076
4	4	CALIFORNIA, LOS ANGELES	188,733
	5	YALE	188,616
	6	ILLINOIS, URBANA	188,468
	7	TORONTO	181,590
	8	TEXAS	181,571
	9	COLUMBIA	166,476
5	10	WASHINGTON	152,461
	11	ARIZONA STATE	133,883
6	12	NORTH CAROLINA	127,838
	13	CORNELL	126,812
	14	MICHIGAN	119,296
	15	MICHIGAN STATE	114,521
	16	RUTGERS	113,110
	17	PRINCETON	110,908
	18	BRITISH COLUMBIA	109,572
	19	WISCONSIN	108,834
	20	VIRGINIA	102,040
	21	FLORIDA	100,629
	22	GEORGIA	100,079
7	23	ARIZONA	99,861
	24	OHIO STATE	99,622
	25	MCGILL	98,201
	26	MINNESOTA	97,527
	27	DUKE	96,563
	28	CHICAGO	96,350
	29	IOWA	93,259
	30	PITTSBURGH	91,980
	31	CALIFORNIA, DAVIS	89,236
	32	INDIANA	87,861
	33	PENNSYLVANIA	86,296
	34	PENNSYLVANIA STATE	85,650
	35	ALBERTA	83,889
	36	LOUISIANA STATE	83,661
	37	WAYNE STATE	80,239
	38	NOTRE DAME	76,728
	39	SOUTH CAROLINA	74,903
	40	NEW YORK	74,628
	41	BRIGHAM YOUNG	73,741
	42	MASSACHUSETTS	72,624
	43	LAVAL	72,012
	44	WESTERN ONTARIO	71,644
	45	GEORGETOWN	71,282
	46	KANSAS	71,272
	47	HAWAII	70,287
	48	CONNECTICUT	70,032
8	49	MARYLAND	68,531
	50	CALIFORNIA, SANTA BARBARA	67,973
	51	JOHNS HOPKINS	65,648
	52	CALIFORNIA, SAN DIEGO	65,414
	53	DELAWARE	61,888
	54	VANDERBILT	60,993
	55	SUNY-BUFFALO	60,888
	56	HOWARD	60,884
	57	PURDUE	60,029
	58	YORK	58,687
	59	EMORY	58,526
	60	CINCINNATI	58,255
	61	GUELPH	57,981
	62	ILLINOIS, CHICAGO	55,925
	63	TEXAS A&M	55,598
	64	SOUTHERN CALIFORNIA	55,566
	65	CALIFORNIA, IRVINE	54,085
	66	COLORADO	53,930
	67	ROCHESTER	53,898
	68	UTAH	53,739
	69	WASHINGTON U.-ST. LOUIS	53,549
	70	DARTMOUTH	53,544
	71	BOSTON	53,264
	72	SASKATCHEWAN	52,592
	73	NEW MEXICO	52,525
	74	WATERLOO	52,492
	75	MIAMI	52,333
	76	MIT	52,288
	77	BROWN	50,664
	78	FLORIDA STATE	49,714
	79	OKLAHOMA STATE	47,767
	80	CALIFORNIA, RIVERSIDE	47,757
	81	NEBRASKA	46,367
	82	VPI & SU	46,367
	83	SOUTHERN ILLINOIS	46,037
	84	COLORADO STATE	45,006
	85	MCMASTER	44,879
	86	TULANE	44,575
	87	KENTUCKY	43,917
	88	SYRACUSE	43,468
	89	IOWA STATE	43,218
	90	ALABAMA	42,959
	91	SUNY-STONY BROOK	42,737
	92	TENNESSEE	42,320
	93	OREGON	41,937
9	94	OKLAHOMA	39,348
	95	MISSOURI	38,961
	96	TEMPLE	38,777
	97	HOUSTON	38,222
	98	SUNY-ALBANY	37,432
	99	QUEEN'S	36,848
	100	RICE	36,127
	101	GEORGIA TECH	35,753
	102	MANITOBA	35,260
	103	KENT STATE	35,110
	104	WASHINGTON STATE	34,616
	105	NORTH CAROLINA STATE	34,343
	106	CASE WESTERN RESERVE	33,112
		NORTHWESTERN	U/A

U/A - Unavailable

RANK ORDER TABLE 3: CURRENT SERIALS (TOTAL)

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 90,000 and over
2- 80,000-89,999
3- 70,000-79,999
4- 60,000-69,999
5- 50,000-59,999
6- 40,000-49,999
7- 30,000-39,999
8- 20,000-29,999
9- 10,000-19,999
10- under 10,000

Gp	Rank	Institution	Value
1	1	CALIFORNIA, BERKELEY +	103,944
	2	HARVARD +	102,000
	3	CALIFORNIA, LOS ANGELES +	93,549
	4	ILLINOIS, URBANA +	92,445
3	5	TEXAS +	78,446
4	6	MICHIGAN +	68,299
	7	COLUMBIA +	63,841
	8	CORNELL +	61,369
5	9	GEORGIA +	57,950
	10	STANFORD +	56,343
	11	YALE	52,496
	12	CALIFORNIA, DAVIS +	51,486
	13	CHICAGO +	50,663
6	14	WASHINGTON +	49,282
	15	WISCONSIN	48,085
	16	MINNESOTA +	47,010
	17	NORTH CAROLINA +	41,758
7	18	SOUTHERN CALIFORNIA +	37,297
	19	TORONTO +	34,053
	20	ARIZONA STATE +	34,001
	21	HAWAII	32,257
	22	OHIO STATE +	32,005
	23	PRINCETON +	31,414
	24	PENNSYLVANIA +	30,419
	25	PENNSYLVANIA STATE +	30,345
	26	CALIFORNIA, SAN DIEGO +	30,225
	27	DUKE	30,018
8	28	FLORIDA	29,542
	29	NEW YORK +	29,499
	30	BOSTON	29,155
	31	ARIZONA	28,808
	32	MICHIGAN STATE +	28,754
	33	RUTGERS	28,433
	34	HOWARD	27,931
	35	KANSAS	27,857
	36	INDIANA	25,699
	37	VIRGINIA	25,693
	38	WAYNE STATE +	24,588
	39	IOWA +	24,119
	40	GEORGIA TECH +	23,580
	41	DELAWARE	23,490
	42	SUNY-BUFFALO +	23,264
	43	MARYLAND +	22,526
	44	PITTSBURGH +	22,259
	45	WASHINGTON STATE +	21,962
	46	BRITISH COLUMBIA	21,499
	47	CALIFORNIA, SANTA BARBARA +	21,497
	48	SOUTHERN ILLINOIS	21,275
	49	GEORGETOWN	21,241
	50	PURDUE	21,042
	51	OREGON	21,024
	52	MIT +	21,019
9	53	TENNESSEE +	20,761
	54	SYRACUSE	20,614
	55	DARTMOUTH	20,533
	56	JOHNS HOPKINS +	20,327
	57	LOUISIANA STATE	19,917
	58	YORK +	19,582
	59	CONNECTICUT +	19,499
	60	ALBERTA +	19,426
	61	VANDERBILT	19,348
	62	KENTUCKY	19,123
	63	CINCINNATI	19,027
	64	SOUTH CAROLINA +	19,009
	65	WESTERN ONTARIO +	18,860
	66	WASHINGTON U.-ST. LOUIS	18,841
	67	BRIGHAM YOUNG +	18,715
	68	FLORIDA STATE	18,656
	69	IOWA STATE	18,627
	70	VPI & SU +	18,412
	71	ILLINOIS, CHICAGO +	17,660
	72	NEBRASKA +	17,626
	73	OKLAHOMA +	17,588
	74	MCGILL	17,447
	75	ALABAMA	17,441
	76	TEXAS A&M	17,088
	77	MISSOURI	17,073
	78	TULANE	16,767
	79	EMORY	16,733
	80	MASSACHUSETTS	16,655
	81	NOTRE DAME	16,602
	82	HOUSTON	16,490
	83	CALIFORNIA, IRVINE	16,467
	84	NEW MEXICO	16,177
	85	QUEEN'S	15,747
	86	MIAMI	15,478
	87	LAVAL +	15,184
	88	TEMPLE	15,171
	89	COLORADO	15,084
	90	SUNY-ALBANY	14,756
	91	WATERLOO +	14,598
	92	UTAH	14,338
	93	ROCHESTER +	13,959
	94	BROWN +	13,464
	95	NORTH CAROLINA STATE	13,349
	96	GUELPH	12,987
	97	MANITOBA	12,368
	98	CASE WESTERN RESERVE	12,345
	99	RICE	12,153
	100	OKLAHOMA STATE	11,976
	101	MCMASTER	11,607
	102	COLORADO STATE	11,284
	103	SUNY-STONY BROOK	11,211
	104	SASKATCHEWAN	10,748
	105	KENT STATE	10,561
10	106	CALIFORNIA, RIVERSIDE +	9,103
		NORTHWESTERN	U/A

U/A - Unavailable + - Includes government document serials

RANK ORDER TABLE 4: MICROFORM HOLDINGS

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group Ranges (in thousands) are:

1- 4,000 and over
2- 3,500-3,999
3- 3,000-3,499
4- 2,500-2,999
5- 2,000-2,499
6- 1,500-1,999
7- 1,000-1,499
8- under 1,000

Gp	Rank	Institution	Value
1	1	CALIFORNIA, LOS ANGELES	5,473,071
	2	HARVARD	5,230,504
	3	WASHINGTON	5,170,917
	4	CORNELL	4,759,356
	5	MISSOURI	4,708,404
	6	CALIFORNIA, BERKELEY	4,255,519
	7	TEXAS	4,220,837
	8	VPI & SU	4,120,423
	9	VIRGINIA	4,095,457
	10	MARYLAND	4,078,087
	11	GEORGIA	4,054,277
2	12	COLUMBIA	3,913,294
	13	ARIZONA	3,880,539
	14	MICHIGAN	3,710,700
	15	NEW MEXICO	3,701,584
	16	TEXAS A&M	3,629,159
	17	SUNY-BUFFALO	3,611,446
	18	HAWAII	3,600,171
	19	RUTGERS	3,536,150
3	20	MICHIGAN STATE	3,412,157
	21	SYRACUSE	3,408,965
	22	ILLINOIS, URBANA	3,374,194
	23	STANFORD	3,343,162
	24	FLORIDA STATE	3,247,651
	25	IOWA	3,202,544
	26	HOUSTON	3,146,164
	27	WISCONSIN	3,143,060
	28	YALE	3,137,720
	29	OHIO STATE	3,124,060
	30	ARIZONA STATE	3,117,172
	31	PENNSYLVANIA STATE	3,057,959
	32	NORTH CAROLINA STATE	3,035,987
	33	NORTH CAROLINA	3,013,887
4	34	SOUTH CAROLINA	2,982,832
	35	SOUTHERN CALIFORNIA	2,954,438
	36	GEORGIA TECH	2,901,213
	37	NEBRASKA	2,774,899
	38	OKLAHOMA	2,774,476
	39	MINNESOTA	2,766,010
	40	SUNY-STONY BROOK	2,752,667
	41	BOSTON	2,717,358
	42	CALIFORNIA, DAVIS	2,705,395
	43	FLORIDA	2,704,384
	44	ALBERTA	2,696,022
	45	HOWARD	2,641,300
	46	CALIFORNIA, SANTA BARBARA	2,612,448
	47	TENNESSEE	2,541,397
	48	WASHINGTON STATE	2,537,760
	49	CONNECTICUT	2,534,895
	50	NEW YORK	2,529,260
5	51	PRINCETON	2,458,236
	52	SUNY-ALBANY	2,446,255
	53	SOUTHERN ILLINOIS	2,431,634
	54	ROCHESTER	2,397,217
	55	PENNSYLVANIA	2,368,423
	56	PITTSBURGH	2,366,794
	57	UTAH	2,347,624
	58	KENTUCKY	2,272,936
	59	CINCINNATI	2,241,587
	60	WESTERN ONTARIO	2,207,218
	61	DARTMOUTH	2,149,809
	62	IOWA STATE	2,141,975
	63	KANSAS	2,109,557
	64	WAYNE STATE	2,044,008
	65	LOUISIANA STATE	2,016,610
	66	SASKATCHEWAN	2,008,684
6	67	RICE	1,911,998
	68	TULANE	1,875,476
	69	DELAWARE	1,851,355
	70	GEORGETOWN	1,849,087
	71	PURDUE	1,777,608
	72	OREGON	1,761,082
	73	WASHINGTON U.-ST. LOUIS	1,750,903
	74	EMORY	1,722,863
	75	QUEEN'S	1,717,551
	76	ILLINOIS, CHICAGO	1,716,927
	77	MASSACHUSETTS	1,715,655
	78	MIT	1,687,035
	79	BRIGHAM YOUNG	1,637,958
	80	INDIANA	1,624,710
	81	VANDERBILT	1,620,546
7	82	JOHNS HOPKINS	1,480,444
	83	CHICAGO	1,473,403
	84	CALIFORNIA, SAN DIEGO	1,473,379
	85	TEMPLE	1,447,932
	86	DUKE	1,385,578
	87	CALIFORNIA, IRVINE	1,364,300
	88	ALABAMA	1,345,014
	89	NOTRE DAME	1,293,625
	90	COLORADO	1,273,941
	91	CALIFORNIA, RIVERSIDE	1,190,247
	92	GUELPH	1,155,115
	93	TORONTO	1,102,847
	94	BROWN	1,093,406
	95	MIAMI	1,083,003
	96	MANITOBA	1,017,083
8	97	MCGILL	990,099
	98	BRITISH COLUMBIA	927,312
	99	KENT STATE	898,588
	100	OKLAHOMA STATE	842,934
	101	LAVAL	826,908
	102	YORK	780,177
	103	WATERLOO	690,351
	104	CASE WESTERN RESERVE	679,105
	105	MCMASTER	416,420
	106	COLORADO STATE	188,660
		NORTHWESTERN	U/A

U/A - Unavailable

RANK ORDER TABLE 5: MATERIALS EXPENDITURES

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group Ranges (in thousands) are:

1- 5,500 and over
2- 5,000-5,499
3- 4,500-4,999
4- 4,000-4,499
5- 3,500-3,999
6- 3,000-3,499
7- 2,500-2,999
8- 2,000-2,499
9- 1,500-1,999
10- 1,000-1,499

Gp	Rank	Institution	Value
1	1	HARVARD	10,568,940
	2	YALE	7,943,400
	3	CALIFORNIA, LOS ANGELES	7,821,472
	4	STANFORD	7,739,453
	5	CALIFORNIA, BERKELEY	7,182,794
	6	MICHIGAN	7,080,443
	7	RUTGERS	6,988,164
	8	TORONTO	6,900,753
	9	COLUMBIA	6,248,763
2	10	WASHINGTON	5,775,455
	11	CORNELL	5,746,133
	12	ARIZONA STATE	5,736,019
	13	ILLINOIS, URBANA	5,649,902
	14	MINNESOTA	5,572,576
	15	TEXAS	5,549,375
3	16	PENNSYLVANIA STATE	5,475,741
	17	CALIFORNIA, DAVIS	5,456,787
	18	INDIANA	5,330,118
	19	ARIZONA	5,209,660
	20	NEW YORK	5,158,606
	21	PRINCETON	5,112,262
	22	VIRGINIA	5,037,657
	23	WISCONSIN	5,031,751
4	24	NORTH CAROLINA	4,943,124
	25	DUKE	4,905,558
	26	OHIO STATE	4,823,189
	27	FLORIDA	4,751,486
	28	IOWA	4,661,359
	29	GEORGIA	4,643,148
5	30	CHICAGO	4,449,233
	31	BRITISH COLUMBIA	4,374,702
	32	JOHNS HOPKINS	4,371,677
	33	SOUTHERN CALIFORNIA	4,289,501
	34	PENNSYLVANIA	4,266,841
	35	PITTSBURGH	4,213,361
	36	CONNECTICUT	4,102,661
	37	WAYNE STATE	4,097,203
	38	CALIFORNIA, SAN DIEGO	4,066,901
	39	MCGILL	4,055,366
	40	EMORY	4,018,775
	41	DELAWARE	4,014,354
6	42	CINCINNATI	3,874,395
	43	WESTERN ONTARIO	3,793,328
	44	HOWARD	3,792,169
	45	COLORADO	3,781,405
	46	KANSAS	3,757,965
	47	MARYLAND	3,751,115
	48	SUNY-BUFFALO	3,648,707
	49	MICHIGAN STATE	3,624,934
	50	MCMASTER	3,614,992
	51	TEXAS A&M	3,600,170
	52	FLORIDA STATE	3,587,395
	53	BRIGHAM YOUNG	3,577,405
	54	ALBERTA	3,526,503
7	55	NEW MEXICO	3,470,710
	56	CALIFORNIA, IRVINE	3,440,559
	57	ILLINOIS, CHICAGO	3,401,276
	58	MIAMI	3,366,882
	59	WASHINGTON U.-ST. LOUIS	3,352,508
	60	LOUISIANA STATE	3,307,614
	61	SUNY-STONY BROOK	3,289,513
	62	GEORGETOWN	3,264,924
	63	ROCHESTER	3,264,045
	64	BOSTON	3,249,292
	65	UTAH	3,248,314
	66	VPI & SU	3,179,480
	67	PURDUE	3,140,710
	68	TULANE	3,134,063
	69	VANDERBILT	3,119,865
	70	QUEEN'S	3,112,587
	71	KENTUCKY	3,103,188
	72	DARTMOUTH	3,086,605
	73	CALIFORNIA, SANTA BARBARA	3,083,557
	74	SYRACUSE	3,059,468
	75	TENNESSEE	3,039,713
	76	OREGON	3,026,552
	77	MASSACHUSETTS	3,000,978
8	78	NOTRE DAME	2,971,774
	79	IOWA STATE	2,960,547
	80	NEBRASKA	2,954,665
	81	SOUTH CAROLINA	2,950,441
	82	HAWAII	2,929,004
	83	SASKATCHEWAN	2,891,123
	84	NORTH CAROLINA STATE	2,887,876
	85	YORK	2,870,479
	86	TEMPLE	2,862,788
	87	OKLAHOMA	2,826,763
	88	BROWN	2,748,262
	89	WATERLOO	2,714,477
	90	HOUSTON	2,697,239
	91	MIT	2,690,928
	92	SOUTHERN ILLINOIS	2,682,406
	93	WASHINGTON STATE	2,680,494
	94	MISSOURI	2,635,063
	95	COLORADO STATE	2,593,129
	96	LAVAL	2,549,129
9	97	CASE WESTERN RESERVE	2,488,428
	98	OKLAHOMA STATE	2,465,221
	99	SUNY-ALBANY	2,453,642
	100	ALABAMA	2,437,143
	101	RICE	2,409,243
	102	MANITOBA	2,363,230
	103	CALIFORNIA, RIVERSIDE	2,201,894
	104	GEORGIA TECH	2,088,317
10	105	KENT STATE	1,995,219
	106	GUELPH	1,845,535
		NORTHWESTERN	U/A

U/A - Unavailable

RANK ORDER TABLE 6: SALARIES AND WAGES

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group Ranges (in thousands) are:

1- 10,000 and over
2- 9,000-9,999
3- 8,000-8,999
4- 7,000-7,999
5- 6,000-6,999
6- 5,000-5,999
7- 4,000-4,999
8- 3,000-3,999
9- 2,000-2,999
10- under 2,000

Gp	Rank	Institution	Value
1	1	HARVARD	22,694,586
	2	CALIFORNIA, BERKELEY	17,673,837
	3	CALIFORNIA, LOS ANGELES	16,305,664
	4	STANFORD	16,251,176
	5	TORONTO	15,975,937
	6	YALE	13,593,600
	7	COLUMBIA	12,669,073
	8	RUTGERS	12,235,210
	9	MICHIGAN	11,686,594
	10	MINNESOTA	10,435,674
	11	WISCONSIN	10,242,408
2	12	TEXAS	9,906,643
	13	CORNELL	9,852,497
	14	WASHINGTON	9,423,118
3	15	ILLINOIS, URBANA	8,940,409
	16	PENNSYLVANIA STATE	8,689,897
	17	OHIO STATE	8,663,445
	18	PRINCETON	8,614,680
	19	BRITISH COLUMBIA	8,534,533
	20	NORTH CAROLINA	8,225,232
	21	FLORIDA	8,223,406
	22	NEW YORK	8,150,516
	23	ALBERTA	8,102,186
	24	MCGILL	8,023,217
4	25	CALIFORNIA, DAVIS	7,913,328
	26	PENNSYLVANIA	7,908,792
	27	INDIANA	7,693,017
	28	SOUTHERN CALIFORNIA	7,686,910
	29	CALIFORNIA, SAN DIEGO	7,249,615
	30	VIRGINIA	7,201,460
	31	LAVAL	7,073,454
5	32	CHICAGO	6,908,283
	33	DUKE	6,709,849
	34	JOHNS HOPKINS	6,624,503
	35	MARYLAND	6,584,244
	36	MICHIGAN STATE	6,186,070
	37	ARIZONA	6,183,818
	38	CALIFORNIA, SANTA BARBARA	6,162,227
	39	ARIZONA STATE	6,049,042
6	40	CONNECTICUT	5,953,485
	41	WESTERN ONTARIO	5,817,799
	42	NEW MEXICO	5,779,928
	43	SUNY-BUFFALO	5,776,607
	44	PITTSBURGH	5,763,136
	45	ILLINOIS, CHICAGO	5,630,383
	46	GEORGETOWN	5,609,683
	47	CINCINNATI	5,591,042
	48	MIT	5,472,903
	49	KANSAS	5,461,111
	50	CALIFORNIA, IRVINE	5,349,840
	51	GEORGIA	5,340,454
	52	HOWARD	5,331,431
	53	WAYNE STATE	5,293,450
	54	YORK	5,262,757
	55	MASSACHUSETTS	5,209,827
	56	IOWA	5,104,152
	57	SUNY-STONY BROOK	5,093,041
7	58	HAWAII	4,942,408
	59	VANDERBILT	4,940,985
	60	MANITOBA	4,852,334
	61	EMORY	4,822,687
	62	COLORADO	4,768,192
	63	BOSTON	4,696,951
	64	KENT STATE	4,696,170
	65	SYRACUSE	4,452,746
	66	BRIGHAM YOUNG	4,426,864
	67	MIAMI	4,406,585
	68	MCMASTER	4,389,506
	69	QUEEN'S	4,361,746
	70	WATERLOO	4,316,793
	71	PURDUE	4,270,356
	72	TEXAS A&M	4,261,253
	73	BROWN	4,250,426
	74	WASHINGTON U.-ST. LOUIS	4,198,598
	75	TENNESSEE	4,192,087
	76	SOUTHERN ILLINOIS	4,095,109
	77	KENTUCKY	4,064,273
	78	IOWA STATE	4,016,259
8	79	TEMPLE	3,978,831
	80	LOUISIANA STATE	3,958,113
	81	NORTH CAROLINA STATE	3,945,847
	82	WASHINGTON STATE	3,864,753
	83	MISSOURI	3,821,195
	84	SASKATCHEWAN	3,821,076
	85	ROCHESTER	3,743,187
	86	VPI & SU	3,674,829
	87	CALIFORNIA, RIVERSIDE	3,665,594
	88	SOUTH CAROLINA	3,660,093
	89	DELAWARE	3,618,033
	90	DARTMOUTH	3,609,977
	91	SUNY-ALBANY	3,493,689
	92	OREGON	3,493,612
	93	NEBRASKA	3,321,195
	94	UTAH	3,288,902
	95	NOTRE DAME	3,224,108
	96	FLORIDA STATE	3,203,412
	97	CASE WESTERN RESERVE	3,190,312
	98	GUELPH	3,165,461
	99	HOUSTON	3,083,546
	100	TULANE	3,063,956
9	101	OKLAHOMA STATE	2,967,508
	102	OKLAHOMA	2,959,212
	103	COLORADO STATE	2,787,920
	104	ALABAMA	2,783,695
	105	RICE	2,576,254
10	106	GEORGIA TECH	1,892,468
		NORTHWESTERN	U/A

U/A - Unavailable

RANK ORDER TABLE 7: OTHER OPERATING EXPENDITURES

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group Ranges (in thousands) are:

1- 4,000 and over
2- 3,500-3,999
3- 3,000-3,499
4- 2,500-2,999
5- 2,000-2,499
6- 1,500-1,999
6- 1,000-1,499
7- 500-999
8- under 500

Gp	Rank	Institution	Value
1	1	HARVARD	6,795,569
	2	YALE	5,004,446
	3	CALIFORNIA, LOS ANGELES	4,689,419
	4	STANFORD	4,253,971
2	5	CALIFORNIA, BERKELEY	3,816,449
	6	CORNELL	3,664,727
	7	WISCONSIN	3,605,976
3	8	WASHINGTON	3,421,081
	9	COLUMBIA	3,418,979
	10	JOHNS HOPKINS	3,112,667
	11	CHICAGO	3,093,074
4	12	PENNSYLVANIA	2,941,187
	13	NEW YORK	2,835,779
	14	MINNESOTA	2,808,746
	15	VIRGINIA	2,767,214
5	16	WASHINGTON U.-ST. LOUIS	2,422,184
	17	OHIO STATE	2,385,194
	18	MICHIGAN STATE	2,308,089
	19	BROWN	2,295,837
	20	TEXAS	2,290,431
	21	RUTGERS	2,260,508
	22	ILLINOIS, URBANA	2,254,941
	23	SOUTHERN CALIFORNIA	2,202,521
	24	INDIANA	2,194,148
	25	PENNSYLVANIA STATE	2,173,468
	26	HOWARD	2,147,235
	27	KENT STATE	2,134,943
	28	MICHIGAN	2,068,639
	29	KANSAS	2,025,831
6	30	DUKE	1,924,678
	31	CALIFORNIA, SAN DIEGO	1,853,657
	32	CONNECTICUT	1,846,963
	33	PRINCETON	1,845,474
	34	NORTH CAROLINA	1,825,444
	35	TEXAS A&M	1,822,472
	36	ARIZONA STATE	1,819,037
	37	SOUTH CAROLINA	1,786,923
	38	WAYNE STATE	1,769,295
	39	PITTSBURGH	1,745,947
	40	EMORY	1,744,579
	41	GEORGETOWN	1,713,697
	42	ALBERTA	1,627,383
	43	MIT	1,625,677
	44	VANDERBILT	1,609,941
	45	MARYLAND	1,578,365
	46	CALIFORNIA, SANTA BARBARA	1,509,980
7	47	ARIZONA	1,490,150
	48	CALIFORNIA, IRVINE	1,469,019
	49	GEORGIA	1,455,168
	50	TORONTO	1,447,907
	51	SUNY-BUFFALO	1,446,235
	52	NORTH CAROLINA STATE	1,396,158
	53	CINCINNATI	1,382,484
	54	SYRACUSE	1,346,631
	55	OKLAHOMA STATE	1,295,579
	56	CALIFORNIA, DAVIS	1,287,330
	57	NEW MEXICO	1,263,811
	58	BOSTON	1,261,460
	59	WASHINGTON STATE	1,216,743
	60	MIAMI	1,210,181
	61	ILLINOIS, CHICAGO	1,204,852
	62	DELAWARE	1,203,631
	63	DARTMOUTH	1,184,976
	64	FLORIDA	1,182,661
	65	PURDUE	1,160,709
	66	OREGON	1,123,126
	67	BRIGHAM YOUNG	1,076,127
	68	VPI & SU	1,062,798
	69	BRITISH COLUMBIA	1,061,680
8	70	YORK	964,320
	71	MISSOURI	940,225
	72	ROCHESTER	939,051
	73	SOUTHERN ILLINOIS	932,882
	74	CASE WESTERN RESERVE	931,528
	75	LAVAL	876,356
	76	MASSACHUSETTS	867,783
	77	COLORADO STATE	862,667
	78	COLORADO	854,401
	79	MANITOBA	845,606
	80	ALABAMA	784,155
	81	OKLAHOMA	756,707
	82	TENNESSEE	744,148
	83	RICE	722,719
	84	UTAH	690,483
	85	NEBRASKA	681,392
	86	HAWAII	654,966
	87	TEMPLE	645,315
	88	TULANE	645,140
	89	LOUISIANA STATE	626,562
	90	SUNY-STONY BROOK	614,871
	91	IOWA	597,898
	92	KENTUCKY	597,021
	93	CALIFORNIA, RIVERSIDE	583,515
	94	SASKATCHEWAN	548,532
	95	WATERLOO	539,424
	96	SUNY-ALBANY	533,220
	97	MCGILL	529,800
9	98	HOUSTON	495,687
	99	GEORGIA TECH	484,634
	100	FLORIDA STATE	473,896
	101	NOTRE DAME	448,388
	102	QUEEN'S	414,279
	103	WESTERN ONTARIO	412,801
	104	MCMASTER	410,698
	105	IOWA STATE	373,512
	106	GUELPH	353,226
		NORTHWESTERN	U/A

U/A - Unavailable

RANK ORDER TABLE 8: TOTAL OPERATING EXPENDITURES

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group Ranges (in thousands) are:

1- 17,000 and over	8- 10,000-10,999
2- 16,000-16,999	9- 9,000-9,999
3- 15,000-15,999	10- 8,000-8,999
4- 14,000-14,999	11- 7,000-7,999
5- 13,000-13,999	12- 6,000-6,999
6- 12,000-12,999	13- 5,000-5,999
7- 11,000-11,999	14- 4,000-4,999

Gp	Rank	Institution	Value
1	1	HARVARD	40,905,537
	2	CALIFORNIA, BERKELEY	29,480,699
	3	CALIFORNIA, LOS ANGELES	29,349,137
	4	STANFORD	28,674,297
	5	YALE	26,896,746
	6	TORONTO	24,574,320
	7	COLUMBIA	22,852,784
	8	RUTGERS	21,860,812
	9	MICHIGAN	21,111,158
	10	CORNELL	19,487,745
	11	MINNESOTA	19,213,314
	12	WISCONSIN	19,091,165
	13	WASHINGTON	18,936,832
	14	TEXAS	17,925,133
	15	ILLINOIS, URBANA	17,194,948
2	16	PENNSYLVANIA STATE	16,668,127
	17	NEW YORK	16,424,012
	18	OHIO STATE	16,127,336
3	19	PRINCETON	15,966,013
	20	PENNSYLVANIA	15,434,175
	21	INDIANA	15,425,406
	22	VIRGINIA	15,257,838
	23	NORTH CAROLINA	15,245,467
	24	CALIFORNIA, DAVIS	15,038,004
4	25	CHICAGO	14,852,685
	26	FLORIDA	14,385,607
	27	SOUTHERN CALIFORNIA	14,338,464
	28	JOHNS HOPKINS	14,217,404
	29	BRITISH COLUMBIA	14,144,640
5	30	ARIZONA STATE	13,877,587
	31	DUKE	13,758,604
	32	CALIFORNIA, SAN DIEGO	13,457,087
	33	ALBERTA	13,371,072
	34	ARIZONA	13,232,559
6	35	MCGILL	12,759,722
	36	MICHIGAN STATE	12,306,366
	37	CONNECTICUT	12,122,828
	38	MARYLAND	12,115,457
7	39	PITTSBURGH	11,901,697
	40	GEORGIA	11,668,634
	41	KANSAS	11,446,035
	42	HOWARD	11,427,835
	43	WAYNE STATE	11,320,503
	44	CALIFORNIA, SANTA BARBARA	11,036,818
	45	SUNY-BUFFALO	11,008,544
8	46	CINCINNATI	10,996,517
	47	GEORGETOWN	10,765,556
	48	EMORY	10,741,274
	49	NEW MEXICO	10,645,139
	50	LAVAL	10,574,873
	51	IOWA	10,553,903
	52	CALIFORNIA, IRVINE	10,481,056
	53	ILLINOIS, CHICAGO	10,367,454
	54	WESTERN ONTARIO	10,183,315
	55	WASHINGTON U.-ST. LOUIS	10,069,892
9	56	MIT	9,916,248
	57	VANDERBILT	9,827,362
	58	TEXAS A&M	9,811,822
	59	COLORADO	9,558,177
	60	BOSTON	9,406,578
	61	BROWN	9,406,004
	62	YORK	9,286,452
	63	BRIGHAM YOUNG	9,213,729
	64	MASSACHUSETTS	9,192,395
	65	MIAMI	9,095,200
	66	SUNY-STONY BROOK	9,090,506
10	67	DELAWARE	8,964,237
	68	SYRACUSE	8,929,768
	69	KENT STATE	8,893,468
	70	HAWAII	8,712,084
	71	PURDUE	8,696,953
	72	SOUTH CAROLINA	8,531,967
	73	MCMASTER	8,506,271
	74	NORTH CAROLINA STATE	8,341,223
	75	MANITOBA	8,197,539
	76	ROCHESTER	8,112,657
	77	TENNESSEE	8,093,394
	78	VPI & SU	8,051,309
	79	LOUISIANA STATE	8,002,404
11	80	QUEEN'S	7,999,497
	81	DARTMOUTH	7,982,175
	82	KENTUCKY	7,892,099
	83	SOUTHERN ILLINOIS	7,851,734
	84	WASHINGTON STATE	7,843,297
	85	OREGON	7,736,764
	86	WATERLOO	7,637,308
	87	TEMPLE	7,602,237
	88	MISSOURI	7,520,902
	89	IOWA STATE	7,508,324
	90	FLORIDA STATE	7,468,986
	91	UTAH	7,367,725
	92	SASKATCHEWAN	7,358,922
	93	NEBRASKA	7,081,454
12	94	TULANE	6,950,382
	95	OKLAHOMA STATE	6,806,752
	96	NOTRE DAME	6,772,138
	97	CASE WESTERN RESERVE	6,708,322
	98	OKLAHOMA	6,617,399
	99	CALIFORNIA, RIVERSIDE	6,609,674
	100	SUNY-ALBANY	6,544,051
	101	COLORADO STATE	6,373,166
	102	HOUSTON	6,355,605
	103	ALABAMA	6,137,694
13	104	RICE	5,744,939
	105	GUELPH	5,432,538
14	106	GEORGIA TECH	4,525,114
		NORTHWESTERN	U/A

U/A - Unavailable

RANK ORDER TABLE 9: MONOGRAPHS PURCHASED (VOLUMES)

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 100,000 and over
2- 90,000-99,999
3- 80,000-89,999
4- 70,000-79,999
5- 60,000-69,999
6- 50,000-59,999
7- 40,000-49,999
8- 30,000-39,999
9- 20,000-29,999
10- 10,000-19,999
11- under 10,000

Gp	Rank	Institution	Value
1	1	YALE	123,418
	2	ILLINOIS, URBANA	100,492
4	3	CALIFORNIA, DAVIS	78,199
	4	MCGILL	75,856
	5	PRINCETON	75,553
5	6	RUTGERS	67,723
	7	OHIO STATE	64,958
	8	CHICAGO	63,463
	9	BRITISH COLUMBIA	61,174
6	10	IOWA	59,406
	11	VIRGINIA	59,376
	12	INDIANA	59,000
	13	BRIGHAM YOUNG	57,274
	14	ARIZONA	52,988
7	15	DUKE	44,068
	16	FLORIDA	43,327
	17	PENNSYLVANIA	42,576
	18	NORTH CAROLINA	40,932
8	19	CALIFORNIA, SAN DIEGO	39,931
	20	KANSAS	39,454
	21	MASSACHUSETTS	38,115
	22	WESTERN ONTARIO	38,026
	23	NEW YORK	37,850
	24	ALBERTA	37,688
	25	NEW MEXICO	37,476
	26	MICHIGAN STATE	36,278
	27	SOUTHERN CALIFORNIA	35,485
	28	WAYNE STATE	34,845
	29	WATERLOO	34,181
	30	CALIFORNIA, SANTA BARBARA	32,718
	31	WASHINGTON	32,482
	32	JOHNS HOPKINS	32,154
	33	QUEEN'S	31,771
	34	GEORGETOWN	30,817
	35	MARYLAND	30,252
9	36	ILLINOIS, CHICAGO	29,705
	37	MCMASTER	28,450
	38	COLORADO	28,125
	39	TULANE	27,945
	40	SUNY-STONY BROOK	27,615
	41	OREGON	27,533
	42	BROWN	27,268
	43	NOTRE DAME	27,250
	44	HOWARD	27,167
	45	CALIFORNIA, RIVERSIDE	26,997
	46	MIAMI	26,631
	47	LAVAL	26,342
	48	WASHINGTON U.-ST. LOUIS	26,341
	49	HOUSTON	25,276
	50	SUNY-BUFFALO	25,190
	51	COLORADO STATE	25,058
	52	CALIFORNIA, IRVINE	24,733
	53	DARTMOUTH	24,482
	54	TEXAS A&M	24,123
	55	SUNY-ALBANY	23,736
	56	VPI & SU	23,603
	57	ROCHESTER	22,065
	58	OKLAHOMA	21,423
	59	KENTUCKY	21,343
	60	IOWA STATE	21,253
	61	SASKATCHEWAN	20,826
	62	GUELPH	20,800
	63	TENNESSEE	20,619
	64	NEBRASKA	20,510
	65	BOSTON	20,453
	66	KENT STATE	20,032
10	67	MIT	18,256
	68	WASHINGTON STATE	18,225
	69	TEMPLE	17,870
	70	MANITOBA	17,726
	71	SYRACUSE	17,503
	72	SOUTHERN ILLINOIS	17,464
	73	PURDUE	16,098
	74	MISSOURI	15,757
	75	ALABAMA	15,675
	76	CASE WESTERN RESERVE	15,294
	77	NORTH CAROLINA STATE	13,867
	78	OKLAHOMA STATE	11,446
11	79	GEORGIA TECH	5,652
		ARIZONA STATE	U/A
		CALIFORNIA, BERKELEY	U/A
		CALIFORNIA, LOS ANGELES	U/A
		CINCINNATI	U/A
		COLUMBIA	U/A
		CONNECTICUT	U/A
		CORNELL	U/A
		DELAWARE	U/A
		EMORY	U/A
		FLORIDA STATE	U/A
		GEORGIA	U/A
		HARVARD	U/A
		HAWAII	U/A
		LOUISIANA STATE	U/A
		MICHIGAN	U/A
		MINNESOTA	U/A
		NORTHWESTERN	U/A
		PENNSYLVANIA STATE	U/A
		PITTSBURGH	U/A
		RICE	U/A
		SOUTH CAROLINA	U/A
		STANFORD	U/A
		TEXAS	U/A
		TORONTO	U/A
		UTAH	U/A
		VANDERBILT	U/A
		WISCONSIN	U/A
		YORK	U/A

U/A - Unavailable

RANK ORDER TABLE 10: EXPENDITURES FOR MONOGRAPHS

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group ranges (in thousands) are:

1- 4,000 and over
2- 3,500-3,999
3- 3,000-3,499
4- 2,500-2,999
5- 2,000-2,499
6- 1,500-1,999
7- 1,000-1,499
8- 500- 999
9- under 500

Gp	Rank	Institution	Value
1	1	HARVARD	4,740,865
	2	CALIFORNIA, LOS ANGELES +	4,536,343
	3	STANFORD +	4,026,834
2	4	TORONTO +	3,641,258
4	5	CALIFORNIA, BERKELEY +	2,924,710
	6	ARIZONA STATE	2,708,609
	7	PRINCETON +	2,695,133
	8	COLUMBIA	2,639,550
	9	ILLINOIS, URBANA	2,582,757
	10	TEXAS +	2,501,923
5	11	RUTGERS	2,492,140
	12	YALE	2,294,700
	13	INDIANA	2,146,685
	14	PENNSYLVANIA STATE +	2,137,775
	15	BRITISH COLUMBIA +	2,125,155
	16	IOWA	2,074,526
	17	MINNESOTA +	2,044,190
	18	DELAWARE +	2,033,876
6	19	WAYNE STATE +	1,962,746
	20	ARIZONA	1,942,292
	21	DUKE	1,936,951
	22	CHICAGO +	1,877,952
	23	WISCONSIN	1,768,668
	24	WESTERN ONTARIO +	1,759,895
	25	CALIFORNIA, SAN DIEGO	1,750,326
	26	BRIGHAM YOUNG	1,727,567
	27	NORTH CAROLINA	1,714,842
	28	PITTSBURGH	1,669,602
	29	NEW YORK	1,638,462
	30	JOHNS HOPKINS	1,637,179
	31	CALIFORNIA, DAVIS	1,628,888
	32	WASHINGTON	1,608,300
	33	VIRGINIA	1,578,072
	34	MCMASTER +	1,577,308
	35	KANSAS	1,512,893
7	36	FLORIDA STATE	1,491,667
	37	SOUTHERN CALIFORNIA	1,481,226
	38	FLORIDA	1,441,239
	39	EMORY	1,440,510
	40	MCGILL +	1,438,736
	41	OHIO STATE	1,433,690
	42	MICHIGAN STATE +	1,422,158
	43	PENNSYLVANIA	1,401,108
	44	GEORGETOWN	1,350,329
	45	ILLINOIS, CHICAGO	1,345,675
	46	GEORGIA	1,302,102
	47	WATERLOO +	1,272,724
	48	CINCINNATI +	1,231,629
	49	NEW MEXICO	1,168,486
	50	BROWN +	1,137,452
	51	YORK	1,136,029
	52	TULANE	1,106,073
	53	CALIFORNIA, SANTA BARBARA +	1,105,286
	54	SOUTH CAROLINA +	1,081,642
	55	ALBERTA +	1,067,492
	56	SYRACUSE	1,066,117
	57	CALIFORNIA, IRVINE	1,064,364
	58	MASSACHUSETTS +	1,064,136
	59	QUEEN'S	1,053,014
	60	DARTMOUTH +	1,027,034
	61	HOWARD	1,025,380
	62	HAWAII	1,021,552
	63	TEMPLE	1,012,249
	64	SASKATCHEWAN +	1,007,752
8	65	TEXAS A&M	986,332
	66	VANDERBILT	976,211
	67	RICE	953,497
	68	NOTRE DAME	950,057
	69	OREGON +	934,232
	70	MARYLAND	932,195
	71	COLORADO	912,538
	72	IOWA STATE	900,627
	73	SUNY-STONY BROOK	899,116
	74	CALIFORNIA, RIVERSIDE	898,249
	75	NEBRASKA +	895,553
	76	ROCHESTER	892,545
	77	TENNESSEE	882,624
	78	UTAH	878,883
	79	SUNY-BUFFALO	871,654
	80	OKLAHOMA	867,538
	81	MIAMI	858,542
	82	VPI & SU +	835,761
	83	LAVAL	831,805
	84	COLORADO STATE	820,156
	85	KENTUCKY	820,111
	86	LOUISIANA STATE	813,369
	87	PURDUE	792,435
	88	MISSOURI	783,080
	89	MANITOBA +	778,623
	90	MIT	773,844
	91	WASHINGTON U.-ST. LOUIS	769,216
	92	BOSTON	751,808
	93	NORTH CAROLINA STATE	745,974
	94	HOUSTON	738,263
	95	WASHINGTON STATE	700,501
	96	SUNY-ALBANY	653,954
	97	SOUTHERN ILLINOIS	644,370
	98	CASE WESTERN RESERVE	616,780
	99	KENT STATE	610,073
	100	GUELPH	586,611
	101	ALABAMA	573,829
	102	OKLAHOMA STATE	555,557
9	103	GEORGIA TECH	438,844
		CONNECTICUT +	U/A
		CORNELL +	U/A
		MICHIGAN +	U/A
		NORTHWESTERN +	U/A

U/A - Unavailable + - Also includes expenditures for Other Library Materials

RANK ORDER TABLE 11: SERIALS PURCHASED (TITLES)

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 50,000 and over
2- 40,000-49,999
3- 30,000-39,999
4- 20,000-29,999
5- 10,000-19,999
6- under 10,000

Gp	Rank	Institution	Value
2	1	COLUMBIA	47,209
	2	GEORGIA	43,180
3	3	CALIFORNIA, DAVIS	38,621
	4	MICHIGAN	36,293
	5	MINNESOTA	35,733
	6	YALE	33,212
4	7	FLORIDA	26,136
	8	HOWARD	26,088
	9	TORONTO	25,324
	10	NEW YORK	24,615
	11	INDIANA	24,298
	12	HAWAII	23,580
	13	OHIO STATE	23,509
	14	VIRGINIA	22,928
	15	IOWA	22,825
	16	SYRACUSE	20,614
	17	MARYLAND	20,040
5	18	KANSAS	19,673
	19	GEORGETOWN	19,310
	20	WASHINGTON U.-ST. LOUIS	18,456
	21	SUNY-BUFFALO	18,085
	22	PURDUE	18,032
	23	ALBERTA	17,638
	24	BOSTON	17,311
	25	CALIFORNIA, SAN DIEGO	17,068
	26	OKLAHOMA	16,887
	27	WAYNE STATE	16,823
	28	ALABAMA	16,746
	29	DARTMOUTH	16,581
	30	BRITISH COLUMBIA	16,540
	31	KENTUCKY	16,503
	32	GEORGIA TECH	16,210
	33	LOUISIANA STATE	16,041
	34	OREGON	16,015
	35	TENNESSEE	15,950
	36	VPI & SU	15,812
	37	HOUSTON	15,653
	38	CALIFORNIA, IRVINE	15,585
	39	JOHNS HOPKINS	15,423
	40	TEXAS A&M	14,821
	41	MASSACHUSETTS	14,820
	42	MICHIGAN STATE	14,752
	43	COLORADO	14,288
	44	MCGILL	14,163
	45	NEBRASKA	14,101
	46	WATERLOO	13,795
	47	TEMPLE	13,000
	48	MISSOURI	12,924
	49	CALIFORNIA, SANTA BARBARA	12,468
	50	IOWA STATE	12,424
	51	ROCHESTER	12,206
	52	CASE WESTERN RESERVE	11,609
	53	BRIGHAM YOUNG	11,603
	54	UTAH	11,420
	55	RICE	11,392
	56	NORTH CAROLINA STATE	11,323
	57	MANITOBA	10,969
	58	MCMASTER	10,921
	59	OKLAHOMA STATE	10,888
	60	LAVAL	10,722
	61	BROWN	10,031
6	62	SASKATCHEWAN	9,903
	63	MIT	9,868
	64	KENT STATE	9,443
	65	COLORADO STATE	8,417
	66	CALIFORNIA, RIVERSIDE	8,154
		ARIZONA	U/A
		ARIZONA STATE	U/A
		CALIFORNIA, BERKELEY	U/A
		CALIFORNIA, LOS ANGELES	U/A
		CHICAGO	U/A
		CINCINNATI	U/A
		CONNECTICUT	U/A
		CORNELL	U/A
		DELAWARE	U/A
		DUKE	U/A
		EMORY	U/A
		FLORIDA STATE	U/A
		GUELPH	U/A
		HARVARD	U/A
		ILLINOIS, CHICAGO	U/A
		ILLINOIS, URBANA	U/A
		MIAMI	U/A
		NEW MEXICO	U/A
		NORTH CAROLINA	U/A
		NORTHWESTERN	U/A
		NOTRE DAME	U/A
		PENNSYLVANIA	U/A
		PENNSYLVANIA STATE	U/A
		PITTSBURGH	U/A
		PRINCETON	U/A
		QUEEN'S	U/A
		RUTGERS	U/A
		SOUTH CAROLINA	U/A
		SOUTHERN CALIFORNIA	U/A
		SOUTHERN ILLINOIS	U/A
		STANFORD	U/A
		SUNY-ALBANY	U/A
		SUNY-STONY BROOK	U/A
		TEXAS	U/A
		TULANE	U/A
		VANDERBILT	U/A
		WASHINGTON	U/A
		WASHINGTON STATE	U/A
		WESTERN ONTARIO	U/A
		WISCONSIN	U/A
		YORK	U/A

U/A - Unavailable

RANK ORDER TABLE 12: EXPENDITURES FOR SERIALS

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

Group Ranges (in thousands) are:

1- 3,100 and over
2- 2,900-3,099
3- 2,700-2,899
4- 2,500-2,699
5- 2,300-2,499
6- 2,100-2,299
7- 1,900-2,099
8- 1,700-1,899
9- 1,500-1,699
10- 1,300-1,499
11- 1,100-1,299
12- under 1,100

Gp	Rank	Institution	Value
1	1	HARVARD	4,369,333
	2	CALIFORNIA, BERKELEY	4,258,084
	3	WASHINGTON	4,001,043
	4	MICHIGAN	3,973,136
	5	RUTGERS	3,750,774
	6	STANFORD	3,712,619
	7	CALIFORNIA, DAVIS	3,657,599
	8	COLUMBIA	3,393,068
	9	MINNESOTA	3,367,212
	10	PENNSYLVANIA STATE	3,337,966
	11	CALIFORNIA, LOS ANGELES	3,274,347
	12	OHIO STATE	3,270,224
	13	TORONTO	3,259,495
2	14	NEW YORK	3,138,271
	15	GEORGIA	3,077,776
	16	ILLINOIS, URBANA	3,063,482
	17	TEXAS	3,047,452
	18	YALE	3,044,300
3	19	ARIZONA STATE	2,946,599
	20	WISCONSIN	2,867,836
	21	NORTH CAROLINA	2,822,222
4	22	SOUTHERN CALIFORNIA	2,725,844
	23	DUKE	2,720,574
	24	VIRGINIA	2,712,624
	25	HOWARD	2,694,799
	26	ARIZONA	2,651,895
	27	CINCINNATI	2,642,766
5	28	CHICAGO	2,571,281
	29	MIAMI	2,490,223
	30	PENNSYLVANIA	2,482,048
	31	ALBERTA	2,459,011
	32	WASHINGTON U.-ST. LOUIS	2,442,675
	33	PRINCETON	2,417,129
6	34	PITTSBURGH	2,368,045
	35	TEXAS A&M	2,333,269
	36	SUNY-BUFFALO	2,323,416
	37	INDIANA	2,319,938
	38	ROCHESTER	2,314,232
	39	PURDUE	2,307,669
	40	JOHNS HOPKINS	2,296,173
	41	LOUISIANA STATE	2,288,459
	42	BRITISH COLUMBIA	2,249,548
	43	FLORIDA	2,242,853
7	44	IOWA	2,195,108
	45	MARYLAND	2,194,095
	46	CONNECTICUT	2,176,633
	47	KANSAS	2,168,094
	48	COLORADO	2,152,571
	49	VPI & SU	2,144,636
	50	WAYNE STATE	2,134,457
	51	MICHIGAN STATE	2,130,162
	52	EMORY	2,097,789
	53	TENNESSEE	2,092,401
	54	BOSTON	2,079,796
	55	CALIFORNIA, IRVINE	2,075,976
	56	VANDERBILT	2,074,992
	57	DARTMOUTH	2,059,571
	58	UTAH	2,059,288
	59	SUNY-STONY BROOK	2,043,232
	60	QUEEN'S	2,041,867
	61	KENTUCKY	2,039,350
	62	MCMASTER	2,012,812
	63	FLORIDA STATE	2,011,118
	64	IOWA STATE	2,005,844
8	65	MCGILL	1,999,155
	66	WESTERN ONTARIO	1,981,585
	67	DELAWARE	1,980,478
	68	CALIFORNIA, SANTA BARBARA	1,978,271
	69	SOUTHERN ILLINOIS	1,950,841
	70	WASHINGTON STATE	1,946,829
	71	NEBRASKA	1,929,870
	72	SYRACUSE	1,921,396
	73	SASKATCHEWAN	1,883,371
	74	MASSACHUSETTS	1,873,014
	75	SOUTH CAROLINA	1,868,799
	76	NEW MEXICO	1,860,207
	77	ALABAMA	1,828,598
	78	OREGON	1,825,722
	79	CALIFORNIA, SAN DIEGO	1,820,407
9	80	MISSOURI	1,772,913
	81	HAWAII	1,771,256
	82	CASE WESTERN RESERVE	1,767,130
	83	TULANE	1,763,945
	84	OKLAHOMA	1,758,711
	85	NORTH CAROLINA STATE	1,736,518
	86	ILLINOIS, CHICAGO	1,733,721
	87	HOUSTON	1,711,519
10	88	OKLAHOMA STATE	1,687,094
	89	GEORGETOWN	1,684,169
	90	BRIGHAM YOUNG	1,633,755
	91	BROWN	1,602,947
	92	MIT	1,592,683
	93	MANITOBA	1,584,607
	94	LAVAL	1,554,277
	95	SUNY-ALBANY	1,553,435
	96	NOTRE DAME	1,546,913
	97	TEMPLE	1,500,652
	98	YORK	1,499,114
	99	COLORADO STATE	1,448,128
	100	WATERLOO	1,441,753
11	101	RICE	1,297,393
	102	CALIFORNIA, RIVERSIDE	1,280,698
	103	GEORGIA TECH	1,233,458
12	104	KENT STATE	1,146,084
	105	GUELPH	1,027,994
		CORNELL	U/A
		NORTHWESTERN	U/A

U/A - Unavailable

RANK ORDER TABLE 13: TOTAL ITEMS LOANED

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 55,000 and over
2- 50,000-54,999
3- 45,000-49,999
4- 40,000-44,999
5- 35,000-39,999
6- 30,000-34,999
7- 25,000-29,999
8- 20,000-24,999
9- 15,000-19,999
10- 10,000- 14,999
11- 5,000- 9,999
12- under 5,000

Gp	Rank	Institution	Value
1	1	MINNESOTA	168,755
	2	ILLINOIS, URBANA	128,988
	3	ILLINOIS, CHICAGO	121,899
	4	WISCONSIN	80,978
	5	WASHINGTON	66,735
	6	CALIFORNIA, LOS ANGELES	61,118
	7	SOUTHERN ILLINOIS	55,594
2	8	CHICAGO	50,358
3	9	INDIANA	49,845
	10	IOWA	49,076
	11	CALIFORNIA, BERKELEY	45,821
	12	HARVARD	45,329
	13	TEXAS A&M	45,164
4	14	ALBERTA	43,635
	15	ARIZONA	40,857
5	16	CALIFORNIA, DAVIS	37,878
	17	CASE WESTERN RESERVE	37,620
	18	DUKE	35,747
6	19	SUNY-BUFFALO	34,913
	20	KANSAS	33,827
	21	ARIZONA STATE	33,171
7	22	NORTH CAROLINA	29,922
	23	MISSOURI	29,715
	24	FLORIDA	29,549
	25	OHIO STATE	29,419
	26	WAYNE STATE	29,192
	27	GEORGIA	27,946
	28	VIRGINIA	27,697
	29	OKLAHOMA	27,156
	30	MCGILL	26,535
	31	CONNECTICUT	26,447
	32	CORNELL	25,906
	33	PENNSYLVANIA STATE	25,277
	34	ROCHESTER	25,038
8	35	COLUMBIA	24,968
	36	BRITISH COLUMBIA	24,878
	37	CINCINNATI	24,681
	38	NORTH CAROLINA STATE	24,592
	39	WASHINGTON STATE	24,401
	40	SUNY-STONY BROOK	23,664
	41	IOWA STATE	22,507
	42	RUTGERS	22,398
	43	EMORY	22,361
	44	WASHINGTON U.-ST. LOUIS	22,274
	45	FLORIDA STATE	22,167
	46	KENTUCKY	21,842
	47	CALIFORNIA, SAN DIEGO	21,837
	48	MIAMI	21,186
	49	VANDERBILT	21,096
	50	SUNY-ALBANY	21,059
	51	COLORADO	20,767
	52	COLORADO STATE ——	20,434
9	53	TEXAS	19,750
	54	NOTRE DAME	19,638
	55	TORONTO	18,995
	56	MARYLAND	18,922
	57	STANFORD	18,481
	58	CALIFORNIA, IRVINE	18,423
	59	JOHNS HOPKINS	18,082
	60	PITTSBURGH	18,053
	61	NEW MEXICO	17,221
	62	MICHIGAN STATE	16,985
	63	PENNSYLVANIA	16,552
	64	VPI & SU	16,252
	65	GEORGIA TECH	16,237
	66	TENNESSEE	16,113
	67	MASSACHUSETTS	16,085
	68	LAVAL	16,006
	69	OKLAHOMA STATE	15,247
	70	MIT	15,066
10	71	OREGON	14,931
	72	PURDUE	14,679
	73	RICE	13,301
	74	KENT STATE	13,248
	75	NEBRASKA	12,377
	76	BRIGHAM YOUNG	12,293
	77	MANITOBA	12,288
	78	LOUISIANA STATE	12,263
	79	UTAH	12,046
	80	MICHIGAN	12,037
	81	YALE	11,923
	82	DELAWARE	11,861
	83	NEW YORK	11,796
	84	MCMASTER	11,613
	85	TULANE	11,238
	86	HAWAII	10,827
	87	HOUSTON	10,366
	88	TEMPLE	10,182
	89	SOUTH CAROLINA	10,043
11	90	BROWN	9,990
	91	CALIFORNIA, SANTA BARBARA	9,751
	92	WESTERN ONTARIO	9,617
	93	BOSTON	9,383
	94	CALIFORNIA, RIVERSIDE	9,319
	95	DARTMOUTH	9,037
	96	YORK	8,875
	97	PRINCETON	8,425
	98	SYRACUSE	7,005
	99	ALABAMA	6,617
	100	GEORGETOWN	6,489
	101	SASKATCHEWAN	6,405
	102	WATERLOO	5,444
	103	SOUTHERN CALIFORNIA	5,105
12	104	QUEEN'S	4,923
	105	HOWARD	3,819
	106	GUELPH	2,241
		NORTHWESTERN	U/A

U/A - Unavailable

RANK ORDER TABLE 14: TOTAL ITEMS BORROWED

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 22,000 and over
2- 20,000-21,999
3- 18,000-19,999
4- 16,000-17,999
5- 14,000-15,999
6- 12,000-13,999
7- 10,000-11,999
8- 8,000- 9,999
9- 6,000- 7,999
10- 4,000- 5,999
11- 2,000- 3,999
12- under 2,000

Gp	Rank	Institution	Value
1	1	ILLINOIS, URBANA	176,750
	2	ILLINOIS, CHICAGO	48,639
2	3	CALIFORNIA, BERKELEY	20,039
4	4	JOHNS HOPKINS	17,985
	5	TEXAS A&M	17,833
	6	PENNSYLVANIA	16,777
	7	KANSAS	16,524
	8	OHIO STATE	16,202
	9	OKLAHOMA	16,127
5	10	RUTGERS	15,860
	11	BRIGHAM YOUNG	15,638
	12	COLORADO STATE	15,440
	13	INDIANA	15,188
	14	ALBERTA	14,181
6	15	WISCONSIN	13,931
	16	PENNSYLVANIA STATE	13,600
	17	CORNELL	13,399
	18	CINCINNATI	12,904
	19	CALIFORNIA, IRVINE	12,255
	20	WASHINGTON U.-ST. LOUIS	12,250
7	21	MINNESOTA	11,883
	22	CONNECTICUT	11,819
	23	COLORADO	11,760
	24	BRITISH COLUMBIA	11,545
	25	KENTUCKY	11,244
	26	CALIFORNIA, SANTA BARBARA	10,849
	27	SUNY-BUFFALO	10,597
	28	MIAMI	10,557
	29	TULANE	10,506
	30	BOSTON	10,386
	31	CALIFORNIA, RIVERSIDE	10,289
	32	CALIFORNIA, LOS ANGELES	10,287
	33	LAVAL	10,239
	34	VANDERBILT	10,116
	35	MICHIGAN	10,109
	36	CALIFORNIA, SAN DIEGO	10,027
8	37	KENT STATE	9,882
	38	NEW MEXICO	9,591
	39	SASKATCHEWAN	9,372
	40	PITTSBURGH	9,363
	41	HOUSTON	9,227
	42	MCMASTER	9,180
	43	NEBRASKA	9,166
	44	TEXAS	9,147
	45	STANFORD	9,015
	46	ARIZONA	8,938
	47	MISSOURI	8,918
	48	TORONTO	8,852
	49	IOWA	8,778
	50	PURDUE	8,738
	51	CHICAGO	8,665
	52	SUNY-ALBANY	8,608
	53	NOTRE DAME	8,548
	54	ROCHESTER	8,547
	55	COLUMBIA	8,544
	56	HARVARD	8,478
	57	YALE	8,429
	58	SOUTH CAROLINA	8,422
	59	VIRGINIA	8,366
	60	CALIFORNIA, DAVIS	8,311
	61	SOUTHERN ILLINOIS	8,240
	62	ARIZONA STATE	8,025
	63	OREGON	8,019
9	64	NEW YORK	7,869
	65	MCGILL	7,740
	66	CASE WESTERN RESERVE	7,632
	67	UTAH	7,611
	68	DUKE	7,598
	69	OKLAHOMA STATE	7,559
	70	MASSACHUSETTS	7,439
	71	PRINCETON	7,259
	72	MICHIGAN STATE	7,129
	73	LOUISIANA STATE	7,059
	74	TENNESSEE	7,050
	75	EMORY	7,008
	76	FLORIDA	6,981
	77	QUEEN'S	6,872
	78	SUNY-STONY BROOK	6,801
	79	SYRACUSE	6,722
	80	TEMPLE	6,683
	81	FLORIDA STATE	6,423
	82	GEORGIA	6,168
	83	DARTMOUTH	6,128
	84	MANITOBA	6,113
10	85	WASHINGTON	5,586
	86	BROWN	5,577
	87	WATERLOO	5,419
	88	NORTH CAROLINA	5,366
	89	IOWA STATE	5,360
	90	VPI & SU	5,299
	91	ALABAMA	4,989
	92	SOUTHERN CALIFORNIA	4,682
	93	NORTH CAROLINA STATE	4,652
	94	YORK	4,554
	95	WESTERN ONTARIO	4,543
	96	DELAWARE	4,537
	97	WASHINGTON STATE	4,331
	98	GEORGETOWN	4,136
11	99	MARYLAND	3,868
	100	GUELPH	3,835
	101	WAYNE STATE	3,412
	102	RICE	3,123
	103	HAWAII	2,997
	104	MIT	2,972
	105	GEORGIA TECH	2,769
12	106	HOWARD	869
		NORTHWESTERN	U/A

U/A - Unavailable

RANK ORDER TABLE 15: PROFESSIONAL STAFF (FTE)

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 225 and over
2- 200-224
3- 175-199
4- 150-174
5- 125-149
6- 100-124
7- 75- 99
8- 50- 74
9- 25- 49

Gp	Rank	Institution	Value
1	1	HARVARD	336
2	2	CALIFORNIA, LOS ANGELES	204
3	3	YALE	195
4	4	CALIFORNIA, BERKELEY	173
	5	COLUMBIA	167
	5	CORNELL	167
	7	STANFORD	165
	8	TORONTO	157
	9	ILLINOIS, URBANA	150
	9	WISCONSIN	150
5	11	TEXAS	147
	12	MICHIGAN	142
6	13	MINNESOTA	124
	14	WASHINGTON	122
	15	INDIANA	119
	16	OHIO STATE	118
	17	RUTGERS	117
	18	NORTH CAROLINA	116
	19	NEW YORK	113
	20	SOUTHERN CALIFORNIA	110
	21	PENNSYLVANIA	109
	22	BRITISH COLUMBIA	108
	22	PRINCETON	108
	24	FLORIDA	107
	25	PENNSYLVANIA STATE	105
7	26	ARIZONA STATE	99
	27	ARIZONA	97
	27	VIRGINIA	97
	29	DUKE	93
	29	PITTSBURGH	93
	31	JOHNS HOPKINS	92
	32	SUNY-BUFFALO	91
	33	KANSAS	90
	33	MARYLAND	90
	35	BRIGHAM YOUNG	89
	36	IOWA	87
	37	ALBERTA	86
	37	CALIFORNIA, SAN DIEGO	86
	37	MIT	86
	40	VANDERBILT	85
	41	HOWARD	83
	42	BROWN	82
	43	GEORGIA	80
	43	ILLINOIS, CHICAGO	80
	43	MCGILL	80
	43	MICHIGAN STATE	80
	47	WAYNE STATE	79
	48	CHICAGO	78
	49	GEORGETOWN	75
8	50	MIAMI	74
	50	NEW MEXICO	74
	52	CINCINNATI	73
	53	CALIFORNIA, DAVIS	72
	54	ROCHESTER	71
	55	CONNECTICUT	70
	55	LAVAL	70
	57	BOSTON	69
	57	KENTUCKY	69
	57	SYRACUSE	69
	57	TEMPLE	69
	57	TEXAS A&M	69
	62	WASHINGTON U.-ST. LOUIS	68
	63	HAWAII	66
	64	CASE WESTERN RESERVE	65
	65	EMORY	63
	66	CALIFORNIA, SANTA BARBARA	62
	67	DELAWARE	61
	67	PURDUE	61
	67	SOUTH CAROLINA	61
	67	TENNESSEE	61
	71	LOUISIANA STATE	60
	72	VPI & SU	59
	73	CALIFORNIA, IRVINE	57
	73	FLORIDA STATE	57
	73	MANITOBA	57
	73	MASSACHUSETTS	57
	77	MISSOURI	56
	78	SUNY-STONY BROOK	55
	79	ALABAMA	54
	79	COLORADO	54
	79	WESTERN ONTARIO	54
	82	KENT STATE	53
	82	NEBRASKA	53
	82	YORK	53
	85	OKLAHOMA STATE	51
	85	OREGON	51
	85	TULANE	51
	88	SOUTHERN ILLINOIS	50
9	89	UTAH	49
	90	HOUSTON	48
	91	OKLAHOMA	47
	91	SUNY-ALBANY	47
	91	WATERLOO	47
	94	RICE	46
	95	WASHINGTON STATE	45
	96	DARTMOUTH	44
	96	GEORGIA TECH	44
	96	IOWA STATE	44
	96	QUEEN'S	44
	100	COLORADO STATE	43
	100	NORTH CAROLINA STATE	43
	102	MCMASTER	40
	102	NOTRE DAME	40
	104	SASKATCHEWAN	38
	105	CALIFORNIA, RIVERSIDE	36
	106	GUELPH	30
		NORTHWESTERN	U/A

U/A - Unavailable

RANK ORDER TABLE 16: NONPROFESSIONAL STAFF (FTE)

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 450 and over
2- 400-449
3- 350-399
4- 300-349
5- 250-299
6- 200-249
7- 150-199
8- 100-149
9- 50- 99
10- under 50

Gp	Rank	Institution	Value
1	1	HARVARD	590
	2	TORONTO	480
3	3	YALE	385
	4	TEXAS	368
4	5	COLUMBIA	348
	6	STANFORD	346
	7	CALIFORNIA, LOS ANGELES	322
	8	MICHIGAN	302
5	9	CALIFORNIA, BERKELEY	286
	10	ALBERTA	275
	11	CORNELL	274
	12	PENNSYLVANIA STATE	272
	13	ILLINOIS, URBANA	267
	14	RUTGERS	266
	15	BRITISH COLUMBIA	260
6	16	WASHINGTON	239
	17	PRINCETON	225
	18	CHICAGO	223
	19	ARIZONA STATE	222
	19	WISCONSIN	222
	21	OHIO STATE	208
	22	NORTH CAROLINA	207
	23	CALIFORNIA, DAVIS	201
7	24	INDIANA	199
	25	MCGILL	196
	26	GEORGIA	195
	27	VIRGINIA	194
	27	WESTERN ONTARIO	194
	29	LAVAL	191
	30	MINNESOTA	190
	31	ARIZONA	187
	32	JOHNS HOPKINS	185
	32	NEW YORK	185
	34	FLORIDA	183
	35	CALIFORNIA, SAN DIEGO	175
	35	ILLINOIS, CHICAGO	175
	37	DUKE	173
	38	PITTSBURGH	171
	39	NEW MEXICO	168
	40	PENNSYLVANIA	166
	41	QUEEN'S	151
	42	TEXAS A&M	150
8	43	MARYLAND	149
	44	GEORGETOWN	147
	44	SOUTHERN CALIFORNIA	147
	44	VANDERBILT	147
	47	EMORY	146
	47	SYRACUSE	146
	47	TENNESSEE	146
	50	CALIFORNIA, SANTA BARBARA	145
	51	MANITOBA	144
	51	PURDUE	144
	53	BOSTON	143
	54	MIT	141
	55	MCMASTER	140
	56	YORK	138
	57	WATERLOO	137
	58	KANSAS	130
	59	CINCINNATI	127
	59	MIAMI	127
	59	SASKATCHEWAN	127
	62	HOWARD	126
	62	NOTRE DAME	126
	64	MICHIGAN STATE	125
	64	SUNY-STONY BROOK	125
	66	KENTUCKY	124
	66	MISSOURI	124
	68	WASHINGTON U.-ST. LOUIS	123
	69	DELAWARE	121
	69	NORTH CAROLINA STATE	121
	71	TEMPLE	118
	72	CALIFORNIA, IRVINE	116
	73	IOWA STATE	115
	73	LOUISIANA STATE	115
	73	SUNY-BUFFALO	115
	76	BROWN	113
	76	IOWA	113
	76	VPI & SU	113
	79	GUELPH	112
	79	NEBRASKA	112
	79	UTAH	112
	79	WASHINGTON STATE	112
	83	COLORADO	108
	84	KENT STATE	107
	85	MASSACHUSETTS	105
	85	ROCHESTER	105
	87	CALIFORNIA, RIVERSIDE	104
	88	CONNECTICUT	101
	88	DARTMOUTH	101
	88	FLORIDA STATE	101
	88	TULANE	101
	88	WAYNE STATE	101
	93	HAWAII	100
9	94	SOUTH CAROLINA	98
	95	SOUTHERN ILLINOIS	97
	96	OREGON	92
	97	HOUSTON	87
	98	SUNY-ALBANY	84
	99	CASE WESTERN RESERVE	83
	100	OKLAHOMA	79
	101	COLORADO STATE	78
	102	RICE	77
	103	ALABAMA	76
	104	OKLAHOMA STATE	75
	105	GEORGIA TECH	59
10	106	BRIGHAM YOUNG	46
		NORTHWESTERN	U/A

U/A - Unavailable

RANK ORDER TABLE 17: TOTAL STAFF

The grouping of institutions below is done because, in a number of cases, there is a relatively insignificant difference between two institutions, which are nevertheless given two different rankings. In order to provide a "coarser" ranking, the institutions are thus clustered into groups according to the ranges specified here.

The ranges for the groups below are:

1- 650 and over
2- 600-649
3- 550-599
4- 500-549
5- 450-499
6- 400-449
7- 350-399
8- 300-349
9- 250-299
10- 200-249
11- 150-199
12- 100-149

Gp	Rank	Institution	Value
1	1	HARVARD	1,065
	2	CALIFORNIA, BERKELEY	773
	3	CALIFORNIA, LOS ANGELES	728
	4	TORONTO	716
	5	YALE	680
	6	COLUMBIA	656
2	7	STANFORD	610
3	8	MICHIGAN	592
	9	TEXAS	589
4	10	ILLINOIS, URBANA	540
	11	CORNELL	527
	12	RUTGERS	525
	13	WISCONSIN	508
5	14	WASHINGTON	493
	15	INDIANA	465
	15	MINNESOTA	465
	17	OHIO STATE	462
6	18	PENNSYLVANIA STATE	449
	19	BRITISH COLUMBIA	415
	20	NORTH CAROLINA	413
	21	ALBERTA	402
7	22	FLORIDA	389
	23	ARIZONA	386
	24	PRINCETON	383
	25	NEW YORK	382
	26	ARIZONA STATE	381
	27	SOUTHERN CALIFORNIA	371
	28	PENNSYLVANIA	369
	29	CHICAGO	367
	30	VIRGINIA	366
	31	PITTSBURGH	355
	32	GEORGIA	352
8	33	NEW MEXICO	348
	34	MARYLAND	342
	35	CALIFORNIA, SAN DIEGO	339
	36	CALIFORNIA, DAVIS	332
	37	BRIGHAM YOUNG	330
	38	MICHIGAN STATE	325
	39	JOHNS HOPKINS	324
	40	DUKE	319
	41	MCGILL	318
	42	KANSAS	316
	43	TEXAS A&M	304
	44	VANDERBILT	303
9	45	GEORGETOWN	296
	46	ILLINOIS, CHICAGO	295
	47	SUNY-BUFFALO	293
	48	WESTERN ONTARIO	291
	49	CINCINNATI	285
	50	KENTUCKY	278
	51	BOSTON	277
	52	LOUISIANA STATE	276
	53	LAVAL	271
	53	PURDUE	271
	55	SYRACUSE	269
	56	IOWA	266
	57	BROWN	265
	58	MIT	258
	58	ROCHESTER	258
	60	EMORY	257
	61	MIAMI	255
	61	TENNESSEE	255
	63	KENT STATE	251
	64	CALIFORNIA, SANTA BARBARA	250
	64	SOUTHERN ILLINOIS	250
10	66	YORK	245
	67	MISSOURI	238
	67	WAYNE STATE	238
	69	HAWAII	236
	70	WASHINGTON U.-ST. LOUIS	235
	71	DELAWARE	234
	72	CONNECTICUT	233
	73	MANITOBA	232
	73	TEMPLE	232
	75	FLORIDA STATE	231
	76	UTAH	229
	77	CALIFORNIA, IRVINE	228
	78	HOWARD	224
	78	SUNY-STONY BROOK	224
	80	COLORADO	221
	80	VPI & SU	221
	82	NORTH CAROLINA STATE	220
	83	IOWA STATE	218
	83	QUEEN'S	218
	85	OREGON	217
	86	NEBRASKA	209
	86	WASHINGTON STATE	209
	88	WATERLOO	206
	89	HOUSTON	205
	90	MASSACHUSETTS	204
	91	MCMASTER	200
11	92	SOUTH CAROLINA	194
	93	CALIFORNIA, RIVERSIDE	191
	94	NOTRE DAME	190
	95	OKLAHOMA STATE	186
	96	OKLAHOMA	183
	97	CASE WESTERN RESERVE	181
	98	TULANE	180
	99	SASKATCHEWAN	179
	100	ALABAMA	176
	101	DARTMOUTH	173
	102	SUNY-ALBANY	167
	103	GUELPH	155
12	104	RICE	148
	105	COLORADO STATE	141
	106	GEORGIA TECH	122
		NORTHWESTERN	U/A

U/A - Unavailable

ARL STATISTICS, 1988-89

Instructions for Completing the Questionnaire

1. Definitions of the statistical categories used in this questionnaire can be found in *American National Standard for Library and Information Sciences and Related Publishing Practices - Library Statistics*. Z39.7-1983. (New York, American National Standards Institute, 1983.)

2. The questionnaire assumes a fiscal year ending June 30, 1989. If your fiscal year is different, please provide a footnote on p. 4 of the questionnaire.

3. **Please do not use decimals.** All figures should be rounded to the nearest whole number.

4. **Please do not leave any lines blank.** If the appropriate answer is zero or none, use **0.** If an exact figure is unavailable, use **U/A.** If a question is not applicable to your library, use **N/A.**

5. In a university that includes both main and branch campuses, an effort should be made to report figures for the main campus only. (The U.S. National Center for Education Statistics in its Integrated Postsecondary Education Data System (IPEDS) survey described a **branch campus** as one "located in a community different from that of its parent institution ... beyond a reasonable commuting distance from the main campus ... The educational activities at the location must be organized on a relatively permanent basis ... and include course offerings for one or more complete college-level programs of at least one full year.") If figures for libraries located on branch campuses are reported, please provide an explanatory footnote on p. 4 of the questionnaire.

6. A **branch library** is defined as an auxiliary library service outlet with quarters separate from the central library of a system, which has a basic collection of books and other materials, a regular staffing level, and an established schedule. A branch library is administered either by the central library or (as in the case of some law and medical libraries) through the administrative structure of other units within the university. Departmental study/reading rooms are not included.

7. **Questions 1-6. Collections.** Use the ANSI Z39.7-1983 definition for **volume** as follows:

   > a physical unit of any printed, typewritten, handwritten, mimeographed, or processed work, contained in one binding or portfolio, hardbound or paperbound, which has been cataloged, classified, and made ready for use.

   Include duplicates and bound volumes of periodicals. Exclude microforms, maps, nonprint materials, and uncataloged items. Exclude government document volumes unless they are cataloged, classified, and shelved as part of the general collection. (Data on documents holdings are requested in the Supplementary Statistics questionnaire.) If any of these items cannot be excluded, please provide an explanatory footnote on p. 4 of the questionnaire. For purposes of this questionnaire, unclassified bound serials that are arranged in alphabetical order are considered classified.

8. **Question 2.** Include only volumes cataloged, classified, and made ready for use.

9. **Question 6.** Report number of volumes purchased. Include all volumes for which an expenditure was made during 1988-89, including volumes paid for in advance but not received during the fiscal year. Include monographs in series and continuations. If only number of titles purchased can be

reported, please report the data and provide an explanatory footnote on p. 4 of the questionnaire. **Note:** This question is concerned with volumes purchased rather than volumes received or cataloged. Question 15 requests the expenditure for the volumes counted here.

10. **Questions 7-9. Serials**. Include duplicate subscriptions and only those government document serials that are cataloged, classified, and shelved as part of the general collection; do not include government documents serials that are housed in a separate government documents collection. (Data on government documents serials is requested in the Supplemental Statistics questionnaire.) Exclude monographic and publishers' series. A **serial** is

    > a publication issued in successive parts, usually at regular intervals, and as a rule, intended to be continued indefinitely. Serials include periodicals, newspapers, annuals (reports, yearbooks, etc.), memoirs, proceedings, and transactions of societies.

11. **Question 8.** If separate numbers of nonpurchased and purchased serials are not available, report only the total number of current serials received on line 9, and report **U/A** for lines 7 and 8.

12. **Question 10. Microforms**. Include number of reels of microfilm, number of microcards, and number of microprint and microfiche sheets. Exclude government document microforms. (Data on government documents microforms is requested in the Supplementary Statistics quiestionnaire.)

13. **Questions 11-14. Personnel.** Report the number of staff in filled positions, or positions which are only temporarily vacant. Include cost recovery positions and staff hired for special projects and grants, but provide an explanatory footnote indicating the number of such staff. If such staff cannot be included, provide a footnote on p. 4 of the questionnaire. The number of FTE staff should be determined on the basis of the length of the work week in the reporting library. **Round figures to the nearest whole numbers**.

14. **Question 11.** Since the criteria for determining professional status vary among libraries, there is no attempt to define the term "professional." Each library should report those staff members it considers professional, including, when appropriate, staff who are not librarians in the strict sense of the term, such as computer experts, systems analysts, budget officers, etc.

15. **Questions 15-26. Expenditures**. Report all expenditures of funds that come to the library from the regular institutional budget and from other sources, such as research grants, special projects, gifts and endowments, and fees for service. Canadian libraries should report expenditures in both Canadian and U.S. dollars. To determine figures in U.S. dollars, divide Canadian dollar amounts by 1.2026, the average monthly noon exchange rate published in the Bank of Canada *Review* for the period July 1988-June 1989. **Please round figures to the nearest dollar.**

16. **Question 15**. Include here expenditures for volumes reported on line 6.

17. **Question 16**. Exclude monographic and publishers' series.

18. **Question 17**. Include all materials except monographs and current serials, e.g. microforms, backfiles of serials, charts and maps, audiovisual materials, manuscripts, electronic media, etc. If expenditures for these materials are included in lines 15 and/or 16 and cannot be disaggregated, please report U/A and provide a footnote on page 4.

19. **Question 18**. Include any other **materials funds expenditures** not included in questions 15-17, e.g., expenditures for bibliographic utilities, literature searching, security devices, memberships for the

purposes of publications, etc. Please list categories, with amounts, in a footnote on p. 4 of the questionnaire. Note: If your library does not use materials funds for non-materials expenditures--i.e., these expenditures are included in Other Operating Expenditures--**report 0, not U/A, on line 18.**

20. **Question 20**. Include only contract expenditures. If all binding is done in-house, state this fact and give in-house expenditures in a footnote on p. 4 of the questionnaire; do not include personnel expenditures.

21. **Questions 21-24**. Exclude fringe benefits. If professional and nonprofessional salaries cannot be separated, enter **U/A** on lines 21 and 22 and enter total staff on line 24.

22. **Questions 23-24**. Report 100% of student wages. Include federal and local funds for work study students, regardless of budgetary source of funds.

23. **Question 25**. Exclude expenditures for buildings, maintenance, and fringe benefits.

24. **Questions 27-28**. Include both original materials and photocopies in lieu of originals.

25. **Questions 29-30. Ph.D. Degrees**. Please note that only the number of Ph.D. degrees are to be counted. Statistics on all other advanced degrees (e.g., D.Ed., D.P.A., M.D., J.D.) are not included in this survey. If you are unable to provide a figure for Ph.D.s only, please note this in a footnote on p. 4 of the questionnaire.

26. **Question 30**. For the purposes of this report, Ph.D. fields are defined as the specific discipline specialties formerly enumerated in the form used by the U.S. Department of Education entitled, "Integrated Postsecondary Education Data System Survey, Postsecondary Completions," designated as ED (CS) Form G50-14P-C. Although the IPEDS form requests figures for all doctoral degrees, only fields in which Ph.D.s are awarded should be reported on the ARL questionnaire. Any exceptions should be noted in a footnote on p. 4 of the questionnaire.

27. **Questions 31-34. Enrollment.** U.S. libraries should use the 1988-89 enrollment figures reported to the Department of Education on the form entitled "Integrated Postsecondary Education Data System, Fall Enrollment . . . 1988," designated as ED (CS) Form G50-14P-EF. The line and column numbers on the IPEDS form for each category are noted on the questionnaire. Please check these figures against the enrollment figures reported to ARL in 1988 to ensure consistency and accuracy. **Note:** In the past, the number of part-time students reported was FTE; the number now reported to IPEDS is a head count of part-time students.

28. **Question 35. Faculty.** Instructional faculty are defined as those members of the Instructional/Research staff who are employed on a full-time basis and whose major regular assignment is instruction, including those with released time for research. Please be sure number reported is equivalent to the number reported for 1987-88.

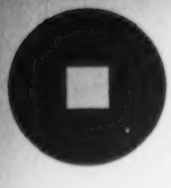
29. **Footnotes.** Reporting libraries are urged to record in the footnote section any information that would clarify the figures submitted, e.g., the inclusion of branch campus libraries (see instruction #5 for definition of branch campus libraries). Explanatory footnotes will be included with the published statistics. Please make an effort to word your footnotes in a manner consistent with notes appearing in the published report, so that the ARL Office can interpret your footnotes correctly. For your convenience, a copy of your footnotes from the 1987-88 *ARL Statistics* is included in the questionnaire. **Please update these notes, delete them, or indicate that they remain valid.** Note that the number in parentheses refers to the appropriate column on the Library Data

Tables in the published *Statistics,* not to a line number on the questionnaire.)

30. After the questionnaire has been completed, compare the figures with those submitted last year. On occasion, an error will be detected because of an unusual difference between numbers submitted this year and those for the preceding year. If an unusual change has occurred, provide an explanatory footnote on p. 4 of the questionnaire.

31. Before returning the questionnaire, **please check all math.** Many follow-up telephone calls can be avoided if math errors are corrected before the questionnaire is submitted.

32. Return one copy of the questionnaire to the ARL Office by **October 6, 1989**. If there are any questions about the procedure to be followed in completing these questionnaires, contact the ARL Office. Please be sure the library director has signed the questionnaire before it is returned to the ARL Office.



ASSOCIATION OF RESEARCH LIBRARIES

ARL STATISTICS QUESTIONNAIRE, 1988-89

Please do not leave any lines blank. If the appropriate answer is zero or none, use "0". If an exact figure is unavailable, use "U/A." If a question is not applicable, use "N/A."

Reporting Institution _____ Date Returned to ARL _____

Questionnaire Completed by (Name) _____

Position _____ Phone _____

Contact Person (if different) _____

Position _____ Phone _____

COLLECTIONS *(See instructions 7-11)*

1. **Volumes held June 30, 1988**
   (Exclude microforms, uncataloged govt. docs., maps, a/v material.
   Record figure reported last year or footnote adjusted figure on p. 4.) _____
2. **Volumes added during year -- Gross**
   (Exclude microforms, uncataloged govt. docs., maps, a/v material.)
   (See instruction 8) _____
3. **Volumes withdrawn during year**
   (Exclude microforms, uncataloged govt. docs., maps, a/v material.) _____
4. **Volumes added during year -- Net** (Subtract line 3 from line 2) _____
5. **Volumes held June 30, 1989** (Add line 1 to line 4) _____
6. **Number of monographic volumes purchased**
   (Volumes for which expenditures are reported on line 15. Footnote if titles.)
   (See instruction 9) _____
7. **Number of current serials, including periodicals, purchased**
   (See instruction 10) _____
8. **Number of current serials, including periodicals, received but not purchased** (Exchanges, gifts, etc.) *(See instructions 10-11)* _____
9. **Total number of current serials received** (Add line 7 to line 8)
   (See instruction 11) _____
10. **Total microform units held June 30, 1989** *(See instruction 12)* _____

PERSONNEL *(See instructions 13-14)* (Round figures to nearest whole number.)

11. **Number of professional staff, FTE** *(See instruction 14)* _____
12. **Number of nonprofessional staff, FTE** _____
13. **Number of student assistants, FTE** _____
14. **Total FTE staff** (Add lines 11, 12, 13) _____

1527 New Hampshire Avenue, N.W., Washington, D.C. 20036
202-232-2466 FAX 202-462-7849

	Dollars Canadian (Canadian libraries only)	Dollars U.S. (Divide Canadian dollars by 1.2026)
EXPENDITURES *(See instructions 15-23)*		
15. Monographs (Expenditures for volumes reported on line 6) *(See instruction 16)*		
16. Current serials including periodicals *(See instruction 17)*		
17. Other library materials (e.g., microforms, a/v, etc.) *(See instruction 18)*		
18. Miscellaneous (All materials fund expenditures not included above) *(See instruction 19)*		
19. Total library materials (Add lines 15, 16, 17, 18)		
20. Contract binding *(See instruction 20)*		
21. Salaries and wages -- professional staff *(See instruction 21)*		
22. Salaries and wages -- nonprofessional staff *(See instruction 21)*		
23. Salaries and wages -- student assistants *(See instruction 22)*		
24. Total salaries and wages (Add lines 21,22,23) *(See instruction 21)*		
25. Other operating expenditures *(See instruction 23)*		
26. Total library expenditures (Add lines 19, 20, 24, 25)		
INTERLIBRARY LOANS *(See instruction 24)*		
27. Total items loaned		
28. Total items borrowed		
PH.D. DEGREES *(See instructions 25-26)*		
29. Number of Ph.D.s awarded		
30. Number of fields in which Ph.D.s can be awarded *(See instruction 26)*		
ENROLLMENT -- FALL 1988 *(See instruction 27)*		
31. Total full-time students (Add line 8, columns 13 & 14, and line 14, colums 13 & 14)		
32. Total part-time students (Add line 22, columns 13 & 14, and line 28, columns 13 & 14)		
33. Total full-time graduate students (Line 14, columns 13 & 14)		
34. Total part-time graduate students (Line 28, columns 13 & 14)		
FACULTY *(See instruction 28)*		
35. Number of full-time instructional faculty		

FOOTNOTES FOR ARL STATISTICS, 1988-89

(Compare footnotes from previous year as they appear in the published *ARL Statistics* and revise as appropriate. For your convenience, a copy of your library's footnotes is given on p. 4 of this questionnaire.) *(See instruction 29)*

1. **Law Library statistics are included.**

   ____ Yes ____ No ____ We do not have a Law Library

2. **Medical Library statistics are included.**

   ____ Yes ____ No ____ We do not have a Medical Library

3. **Other main campus libraries not included:**

   _____

   _____

   _____

4. **Figures include reports from branch campus libraries.** *(See instruction 5)*

   ____ Yes ____ No ____ We have only one campus.

5. **If branch campus libraries are included, please specify which campuses.**

   _____

   _____

6. **If branch campus libraries are not included, please specify which campuses:**

   _____

   _____

7. **Basis of volume count is:** ____ Physical ____ Bibliographical

8. **Count of current serials** (Questions 7-9) **includes government document serials.**

   ____ Yes ____ No

9. **Fringe benefits are included in expenditures for salaries and wages** (Questions 21-24).

   ____ Yes ____ No

10. **Other comments:**

    _____

    _____

    _____

    _____

    _____

FOOTNOTES FOR ARL STATISTICS, 1988-89

11. **Footnotes as published in the 1987-88 *ARL Statistics*. Please indicate revisions, additions, and deletions as appropriate. Also, please indicate if any footnotes published last year are still valid if they are unchanged. Note: number in ( ) refers to the column in Library Data Tables in 1987-88 *ARL Statistics*.**

Please return completed questionnaire to the ARL Office by October 6, 1988.

Reporting Institution: _____

Library Director's Signature: _____

Association of Research Libraries, 1527 New Hampshire Avenue, N.W., Washington, D.C. (202) 232-2466

FOOTNOTES TO THE ARL STATISTICS, 1988-89

Institution	Category from Main Tables	Notes
ALABAMA		All figures are as of September 30, 1989.
	(12)	Includes 2 FTE paid from grant funds.
	(17)	Includes Law Library, Health Sciences Library, and Map Library only; Gorgas Library (main) and branches do not separate expenditures for audiovisual materials and microforms.
	(25)	Includes bibliographic utility, memberships, and literature searching.
ALBERTA		All figures are as of March 31, 1989.
		Includes Faculte St. Jean. Excludes Boreal Institute Library, St. Joseph's College Library, and Map Library.
	(15,16)	Figures including outside funding would be (15) $1,960,264 (Can.); (16) $3,220,540 (Can.).
	(17,18)	Included in Monographs Expenditures (15) and Serials Expenditures (16).
	(15-26)	Expenditures are University provided funding only.
	(15-26)	Expenditures reported in Canadian dollars were: (15) $1,369,165; (16) $3,153,927; (17) U/A; (18) U/A; (19) $4,523,092; (20) $147,499; (21) $3,647,070; (22) $6,039,794; (23) $705,000; (24) $10,391,864; (25) $2,087,282; (26) $17,149,737.
ARIZONA	(1)	1987-88 figure revised. Includes government documents received through 1978.
	(5-7)	Government documents included until 1978.
	(5-6)	Figures for Law Library are unavailable.

Institution	Category from Main Tables	Notes
ARIZONA STATE		Includes Arizona State University West Campus.
	(11-12)	Includes 1 FTE professional and 2 FTE nonprofessional paid from grant funds.
		1987-88 Ph.D. figures included all doctoral degrees.
BOSTON		Includes the Theology Library.
	(1)	1987-88 figure revised.
BOSTON PUBLIC	(1)	Includes branch libraries (794,707) and general library (833,180). Excludes patents (9,168,695); prints (700,000+); and manuscripts (1,000,000+).
	(19)	1987-88 figure revised.
	(25)	1987-88 figure revised.
BRIGHAM YOUNG		All figures are as of August 31, 1989.
BRITISH COLUMBIA	(1-8,15-26)	Figures are as of March 31, 1989.
	(4,15-19)	Includes cataloged and classified government publications.
	(8)	Microform holdings including government document microforms are 3,709,247.
	(11-12)	Includes 5 professional and 3 nonprofessional positions paid from grant funds.
	(17,18)	Included in Monographs Expenditures (15).
	(15-26)	Expenditures reported in Canadian dollars were: (15) $2,555,711; (16) $2,705,306; (17) U/A; (18) U/A; (19) $5,261,017; (20) $208,922; (21) $4,097,464; (22) $5,262,248; (23) $903,917; (24) $10,263,629; (25) $1,276,776; (26) $17,010,344.
BROWN		Includes John Carter Brown Library, Annmary Brown Library, and Art Slide Library.

Institution	Category from Main Tables	Notes
BROWN (cont.)	(15)	Includes documents and media (such as microforms, videos, and sound recordings).
	(17)	Included in Monographs Expenditures (15) and Serials Expenditures (16).
CALIF., BERKELEY	(17,18)	Included in Monographs Expenditures (15).
CALIF., DAVIS		Includes Harrison Western Research Center Library collection of 18,142 bound volumes and 107 non-document serials in Fair Oaks, California.
		Number of full-time instructional faculty is an estimated figure.
CALIF., IRVINE	(7)	Figure for current serials including government documents serials is 19,492.
	(8)	Figure for microform holdings including government publications microforms is 1,637,126.
	(18)	Includes memberships ($28,840) and other expenditures ($55,737).
CALIF., LOS ANGELES	(1)	1987-88 figure revised.
	(1-3)	Initial volume count in 1940s was bibliographical; subsequent counts of added volumes have been physical.
	(5-7)	Includes cataloged government document serials.
	(11)	Professional staff includes the following position titles: Specialist, Principal Administrative Analyst, Senior Administrative Analyst, Administrative Analyst, Programmer I-IV, Senior Accountant, MSO I-IV, Principal Editor, Senior Editor, and Library Assistant V.
CALIF., RIVERSIDE	(4)	Count in number of titles rather than volumes.

Institution	Category from Main Tables	Notes
CALIF., RIVERSIDE (cont.)	(19)	Includes donations and budgeted work study funds.
	(23)	Includes $33,097 in federal work study funds.
	(25)	Includes grants, opportunity funds, and budgeted funds.
CALIF., SAN DIEGO	(3)	Reflects government documents deleted from volume count and added to government documents category (8,501 volumes).
	(5-7)	Includes government document serials and monographic and publishers' serials received on standing order
	(14)	Includes 7 FTE hired for cost recovery operations, special projects, and grants.
	(18)	Includes machine-readable data files ($31,470) and data services ($59,252).
		Faculty figures are FTE, almost all of which are full time.
CALIF., SANTA BARBARA	(8)	Excludes government documents microforms for the first time.
	(17)	Included in Monographs Expenditures (15).
CANADA INSTITUTE FOR SCIENTIFIC AND TECHNICAL INFORMATION		Includes 14 branch libraries throughout Canada which serve the divisions of the National Research Council of Canada, CISTI's parent organization.
		All figures are as of March 31, 1989.
	(24)	Includes fringe benefits.
	(15-26)	Expenditures reported in Canadian dollars were: (15) U/A; (16) U/A; (17) U/A; (18) U/A; (19) $8,931,731; (20) 73,200; (21) U/A; (22) U/A; (23) U/A; (24) $7,760,000; (25) $8,882,000; (26) $25,646,931.

Institution	Category from Main Tables	Notes
CASE WESTERN RESERVE	(1)	1987-88 figure revised.
	(1-3)	Count is physical for some libraries and bibliographical for others.
	(3)	Net figure reflects volumes withdrawn during major weeding project.
	(5-7)	Includes government document serials in Health Science Library.
	(11-12)	Includes 1 FTE professional and 2 FTE nonprofessional paid from special project funds.
		Figure for number of Ph.D. fields revised from previous years.
		Figures for number of full-time faculty revised from previous years to include School of Medicine faculty.
CENTER FOR RESEARCH LIBRARIES	(5-7)	Excludes state documents.
	(9)	Current figure is for items loaned. Previous years' figures were for requests filled.
	(11,12,21,22,)	Includes 1 FTE professional and 1 FTE nonprofessional working on grant fund project.
	(17,26)	Includes restricted-fund expenditures.
	(25)	Excludes figures related to building maintenance included in previous years.
CHICAGO	(5-7)	Includes monographic series; excludes duplicate subscriptions.
	(10)	Excludes 6,683 borrowed from the Center for Research Libraries.
	(16)	Includes monographic series.
	(17)	Included in Monographs Expenditures (15) and Serials Expenditures (16).
CINCINNATI	(1)	1987-88 figure revised.

Institution	Category from Main Tables	Notes
CINCINNATI (cont.)	(16)	Includes microforms.
	(17,18)	Included in Monographs Expenditures (15) and in Serial Expenditures (16).
	(21,22)	Figures unavailable. A combined salary figure for professional and non-professional staff totals $4,930,701.
	(25)	Includes $784,178 for operation of automated library system.
		Includes only Ph.D. degrees; excludes all other doctoral degrees.
COLORADO	(12)	Includes 2 FTE paid from grant funds and 5 FTE paid from auxiliary funds.
	(13)	Includes 23 FTE paid from work study funds.
	(18)	Includes Bibliographic utility and Humanities Special Purchase expenditures.
COLORADO STATE	(18)	Includes ARL ($7,000); CRL ($20,176); RLG ($65,200); RLIN ($169,800); OCLC tapeload ($15,000); and IBDBS ($13,389).
	(20)	Excludes in-house bindery supplies ($8,633).
	(25)	Includes payment for IBM 4361 and storage facility ($164,832) and allocation to Information Systems for NOTIS support ($108,000).
CONNECTICUT		Includes Greater Hartford Campus. Excludes Avery Point, Stamford, Waterbury, and Litchfield County Center for Higher Education.
CORNELL		Includes Geneva Experiment Station.
	(1)	1987-88 figure revised.
	(15-18)	Unable to differentiate expenditure categories.

Institution	Category from Main Tables	Notes
DARTMOUTH	(11-14)	Includes 1 FTE professional, 3 FTE non-professionals, and .5 FTE student assistant paid from grant funds.
	(17)	Included in Monographs Expenditures (15) and Serial Expenditures (16).
DELAWARE		Includes Marine Studies Library at the University of Delaware Marine Studies Research Complex in Lewes, Delaware.
	(11-12)	Includes 3 professional staff and 2 support staff on grant funding.
	(11-14,21-24)	Excludes professional and nonprofessional staff in Computing and Network Services assigned to the library.
	(17)	Included in Monographs Expenditures (15) and Serials Expenditures (16).
	(19)	Excludes costs for 4 licensed databases.
	(25)	Includes costs for 4 licensed databases.
	(26)	Excludes operating budget of University of Delaware Library Associates, which in 1988-89 was $82,520.
DUKE		Includes Fuqua School of Business Library.
	(1)	1987-88 figure revised.
	(4)	Count is number of titles rather than volumes.
	(8)	Counts based on physical microform pieces. Includes Law Library government documents.
		Faculty figure includes faculty with regular rank.
EMORY	(1)	1987-88 figure revised.
	(11-26)	Figures are as of August 31, 1989.
	(14)	Includes 5.75 FTE cost recovery positions.
	(18)	Includes database searches ($102,280) and bibliographic utilities ($46,976).

Institution	Category from Main Tables	Notes
FLORIDA	(1)	1987-88 figure revised.
	(11-12)	Includes .97 FTE professional and .15 FTE nonprofessional paid from grant funds.
	(13)	Includes all hourly staff.
	(21-24)	Includes fringe benefits.
	(26)	Excludes all expenditures for library automation provided by the Florida Center for Library Automation.
FLORIDA STATE		Includes branch campus in Panama City (holdings and materials expenditures only). Excludes Development Research School.
	(15)	Includes microforms, audiovisual materials, etc.
	(17,18)	Figures available for Law Library only.
		Ph.D.s awarded includes all doctoral degrees.
GEORGETOWN	(5-7)	Includes government documents if cataloged and not part of the Depository.
	(25)	Excludes one time expenditure of $720,828 overlapping two fiscal years for equipment needed for expansion to library building's first floor.
GEORGIA		Includes experiment stations at Griffin, Tifton, Skidaway, and Sapelo.
	(1,2)	Includes cataloged government documents, some of which are shelved together in the Main and Science Libraries.
	(7)	Includes some monographic series received on standing order.
GEORGIA TECH	(1-7)	Includes government documents that are cataloged, classified, and housed separately.
GUELPH		All figures are as of April 30, 1989.
	(1)	Includes cataloged government documents.

Institution	Category from Main Tables	Notes
GUELPH (cont.)	(7)	Government serials included for the first time.
	(15-26)	Expenditures reported in Canadian dollars were: (15) $705,458; (16) $1,236,265; (17) $277,718; (18) 0; (19) $2,219,441; (20) $82,157; (21) $1,530,296; (22) $2,149,022; (23) $127,465; (24) $3,806,783; (25) $424,789; (26) $6,533,170.
HARVARD		Includes research institutions in District of Columbia and Italy.
	(1)	1987-88 figure revised.
	(8)	Includes some government documents; excludes some international government documents.
	(26)	Separate figures for expenditures from grants and special projects not available. Excludes fringe benefits ($4,231,333) and building and maintenance ($2,254,137) charged to library budget. Total reported expenses including these items: $47,391,007. Cost recovery items ($3,968,593) are included this year. All Ph.D.s are awarded through the Graduate School of Arts and Sciences. Number of full-time instructional faculty figure represents FY 88-89 full-time faculty count for all faculties of the University.
HAWAII	(25)	1988-89 figure includes one-time costs associated with relocating staff and services during three-month asbestos removal project.
HOUSTON		All figures are as of August 31, 1989.
HOWARD	(4)	Incorrect figures reported for 1987-88.
	(18)	Includes bibliographic searching ($27,540); newspapers ($12,000); LC publications ($2,500); and posters, etc.
ILLINOIS, CHICAGO	(9-10)	1987-88 ILL figure included only partial ILL activity.

Institution	Category from Main Tables	Notes
ILLINOIS, CHICAGO (cont.)	(17)	Estimated figure.
		1987-88 figures for full-time and part-time enrollment revised to 16,853 total full-time and 7,071 total part-time.
ILLINOIS, URBANA	(7)	Estimated figure.
	(14)	Includes 23 FTE graduate assistants and 17.5 FTE funded from research grants or other temporary funds.
INDIANA	(2)	Excludes 1988-89 volumes added from the Kinsey Institute for Sex Research.
	(25)	Includes new funding for library automation project.
IOWA	(5,7)	Includes only those government documents received on paid subscriptions.
	(17)	Figure available for Law Library only ($69,543). Expenditures for other libraries are included in Monographs Expenditures (15) and Serials Expenditures (16).
	(18)	Automation expenditures.
	(21)	Excludes salary for .5 FTE Associate Dean for Research in Law.
	(26)	Includes $95,368 in gifts.
IOWA STATE	(5-7)	Includes government document serials that are cataloged, classified, and shelved as part of the collection.
	(8)	Includes government documents microfilm.
	(12)	Includes 7 FTE cost recovery positions.
	(13)	Includes 2.5 FTE cost recovery positions.
	(18)	Includes OCLC ($21,000) and literature searching ($6,000).

Institution	Category from Main Tables	Notes
JOHNS HOPKINS		Includes Eisenhower Library; Peabody Conservatory Library; Welch Medical Library; Institute of the History of Medicine; School of Hygiene and Public Health Library; Applied Physics Laboratory Library; School of Advanced International Studies in Washington, DC, and Bologna, Italy; the Center for Italian Studies in Florence, Italy; the Montgomery County Center in Rockville, MD; and the School of Continuing Studies' Columbia Center and Downtown Center.
	(1)	1987-88 figure revised.
	(5-7)	Includes some cataloged government documents.
	(18)	Includes literature searching, computer-assisted instruction, and postage for library materials.
KANSAS		Includes School of Medicine in Kansas City.
	(1)	1987-88 figure revised.
	(17)	Figures for main library included in Monographs Expenditures (15).
		Count of Ph.D. fields includes one joint program with Kansas State, for a total of 52 fields at Lawrence campus and 11 at Medical Center in Kansas City.
		Number of full-time instructional faculty excludes faculty administrators, librarians, and 58 faculty at Wichita Medical Center.
KENT STATE		Includes main campus and branches at Astabula, Geauga, East Liverpool, Salem, Stark, Trumbull, Tuscarawas.
	(1)	1987-88 figure adjusted to include seven regional campus libraries and the Instructional Resources Center.
	(5)	Includes continuations.
	(6)	Estimated figure.

Institution	Category from Main Tables	Notes
KENT STATE (cont.)	(7)	Excludes 4,750 government serials.
	(8)	Excludes government documents.
	(11-14,17,19,21-26)	Figures include Audiovisual Services, Computer Assisted Instruction, and Teleproduction.
	(25)	Includes fringe benefits.
KENTUCKY	(7)	Excludes government documents.
	(11,12)	Includes 4 FTE professionals and 1 FTE nonprofessional paid from grant funds. Also includes 2 FTE professionals on special assignment.
	(18)	Includes OCLC services ($110,000); postage ($43,962); data services ($2,666); security strips and other binding supplies ($23,252); and Medical Library CD ROM and database subscriptions ($41,285).
	(25)	Includes $178,093 in grants and gifts and $137,847 in income.
LAVAL	(4)	Count is number of titles rather than volumes.
	(15)	Includes $87,083 (Can.) in grant funds.
	(17)	Includes $26,713 (Can.) for a special program of conversion on microfilm of part of the Scientific Library's periodical collections.
	(18)	Includes online literature searching.
	(20)	Includes only special contracts and binding furniture. Most binding is done in-house. Salaries involved are $180,263 (Can.).
	(24)	Excludes fringe benefits $1,105,343 ($1,329,286 Can.).

Institution	Category from Main Tables	Notes
LAVAL cont.)	(15-26)	Expenditures reported in Canadian dollars were: (15) $1,000,329; (16) $1,869,174; (17) $72,159; (18) $123,922; (19) $3,065,584; (20) $91,318; (21) $3,472,035; (22) $4,814,260; (23) $220,242; (24) $8,506,537; (25) $1,053,906; (26) $12,717,345.
LIBRARY OF CONGRESS		All figures are as of September 30, 1989.
	(7)	Estimated figure.
	(21-24)	Includes fringe benefits.
LINDA HALL		All figures are as of December 31, 1988.
LOUISIANA STATE		Includes Law Library and Veterinary Medicine Library.
	(1)	1987-88 figure revised.
	(2)	Includes 5,910 volumes processed from the Design Resource Center and 12,924 volumes from Instructional Media Center not previously cataloged.
	(7)	Decrease is a reflection of cancellation activity and improved serials control.
	(18)	Includes $115,000 paid to the Southeastern Library Network and Law Library expenditures of $59,256.
	(23)	Includes $205,442 in work-study funds.
McGILL		All figures are as of May 31, 1989.
	(17)	Included in Monographs Expenditures (15) and Serials expenditures (16).
	(18)	Includes Tattletape ($36,942 Can.); bibliographic searching ($378,717 Can.); and retrospective conversion bibliographic searching ($279,000 Can.).
	(22)	Includes contracted security services ($192,173 Can.).

Institution	Category from Main Tables	Notes
McGILL (cont.)	(25)	Includes automation hardware and software installations ($182,275 Can.) and barcoding labels ($21,600 Can.).
	(15-26)	Expenditures reported in Canadian dollars were: (15) $1,730,224; (16) $2,404,184; (17) U/A; (18) $742,575; (19) $4,876,983; (20) $182,000; (21) $3,860,137; (22) $5,265,380; (23) $523,204; (24) $9,648,721; (25) $637,137; (26) $15,344,841.
		Total part-time student figure reported is FTE; headcount is 11,357.
McMASTER		All figures are as of April 30, 1989.
	(1)	1987-88 figure revised.
	(17)	Included in Monographs Expenditures (15) and Serials Expenditures (16).
	(15-26)	Expenditures reported in Canadian dollars were: (15) $1,896,871; (16) $2,420,607; (17) U/A; (18) $29,912; (19) $4,347,390; (20) $109,526; (21) $1,625,180; (22) $3,305,061; (23) $348,578; (24) $5,278,819; (25) $493,905; (26) $10,229,640.
MANITOBA		All figures are as of March 31, 1989.
	(11-12)	Includes 1.6 FTE professional and 1.21 FTE nonprofessional paid from grant funds.
	(17,18)	Included in Monographs Expenditures (15) and Serials Expenditures (16).
	(15-26)	Expenditures reported in Canadian dollars were: (15) $936,372; (16) $1,905,648; (17) U/A; (18) U/A; (19) $2,842,020; (20) $163,997; (21) $2,374,613; (22) $2,975,614; (23) $485,190; (24) $5,835,417; (25) $1,016,926; (26) $9,858,360.
MARYLAND		Figures reported include data from the College of Library and Information Services Library for collections and expenditures for library materials only.

Institution	Category from Main Tables	Notes
MARYLAND (cont.)	(13,24)	Expenditures for federal work study students are excluded, but these students are included in the calculation of FTE student assistants.
		Ph.D. count includes all doctoral fields.
MASSACHUSETTS	(7)	Includes 285 periodical titles received as U.S. depository items. These titles are fully cataloged, classified, and intershelved in the main and branch collections.
	(12)	Includes 8 temporary staff for retrospective conversion, and 1 trust-funded staff.
	(23)	Includes Federal work-study contribution ($117,572) excluded in previous years.
		Ph.D.s awarded excludes 103 Ed.D. degrees.
MIT	(11,12)	Includes 2.0 FTE professionals and 1.0 FTE nonprofessional paid through grant funds.
	(18)	Includes bibliographic utilities ($179,215) and literature searching ($103,721).
	(26)	Includes $155,858 in grant funds.
MIAMI	(21)	Excludes director's salary.
MICHIGAN		Excludes Dearborn Campus Library, and the University of Michigan, Flint Library.
	(1)	Includes microforms in the Transportation Research Institute.
	(16)	Includes microform serials.
MICHIGAN STATE	(1-3, 6-7)	Includes government documents.
	(5)	Includes some monographic series that cannot be disaggregated.
	(11)	Includes .5 FTE paid from grant funds.
	(12)	Includes 1 FTE paid from grant funds and 4 FTE from cost recovery funds.

Institution	Category from Main Tables	Notes
MICHIGAN STATE (cont.)	(13)	Includes 1 FTE paid from grant funds and 19 FTE from cost recovery funds.
	(16)	Includes expenditures for some monographic series that cannot be disaggregated.
	(17)	Included in Monographs Expenditures (15) and Serial Expenditures (16).
MINNESOTA	(17)	Included in Monographs Expenditures (15) and Serials Expenditures (16).
	(18)	Includes CRL dues ($30,313) and postage, service charges, foreign drafts, etc.
		Full-time instructional faculty figure reported for 1987-88 was incorrect.
MISSOURI	(5,7)	Includes law monographic series.
	(18)	Includes $12,000 paid to OCLC by Law Library and $30,016 for computer-assisted legal research.
	(21)	Includes $113,753 for UM-Wide Library Systems Office for online catalog.
	(25)	Includes $295,476 for UM-Wide Library Systems Office for online catalog.
NATIONAL AGRICULTURAL LIBRARY		U.S.D.A. field libraries are not included.
		All figures are as of September 30, 1989.
	(2)	Serial volumes added is estimated count of unbound serials; binding of periodicals is not current.
	(11)	Increase over last year's figure reflects a change in the manner of regarding administrative staff.
	(21-24)	Includes fringe benefits.
NATIONAL LIBRARY OF CANADA		Figures for holdings, interlibrary loans, and expenditures are as of March 31, 1989.

Institution	Category from Main Tables	Notes
NATIONAL LIBRARY OF CANADA (cont.)	(4)	In addition to monographs purchased, two copies of documents published in Canada are received on legal deposit.
	(11-14)	Authorized person-years.
	(15,16)	Canadian monographs and serials are received on legal deposit.
	(18)	Includes expenditures on custom brokers, memberships, Telex, freight and express charges, and communication (databases).
	(15-26)	Expenditures reported in Canadian dollars were: (15) $553,533; (16) $708,549; (17) $1,497,817; (18) $44,707; (19) $2,804,606; (20) $18,000; (21) $8,062,143; (22) $9,993,105; (23) $436,437; (24) $18,491,685; (25) $14,569,477; (26) $35,883,768.
NATIONAL LIBRARY OF MEDICINE		All figures are as of September 30, 1989.
	(11-26)	Statistics reflect the Library Operations component of the Library: Public Services, Technical Services, Bibliographic Services, and History of Medicine Divisions, as well as the Medical Subject Headings staff, the staff of the Regional Medical Library program, and the Office of the Associate Director for Library Operations.
NEBRASKA		Basis of volume count is physical, in previous years it was incorrectly reported as bibliographical.
	(1)	1987-88 figure revised.
	(5-7)	Includes cataloged government documents.
	(4-7)	Excludes figures for Law Library which are unavailable.
	(8)	Increase from last year figure due to actual physical count.
	(18)	Excludes figures for Law Library which are unavailable.

Institution	Category from Main Tables	Notes
NEWBERRY LIBRARY	(4)	Count is number of titles rather than volumes.
	(7)	Estimated figure.
	(21-24)	Includes fringe benefits.
	(24,25)	Includes salaries and wages associated with buildings, maintenance, and the Division of Research and Education.
NEW MEXICO		Includes General Library, Law Library, and Medical Center Library. 1987-88 data included only the General Library's figures.
	(1)	1987-88 figure revised.
	(1-3)	Includes some non-print volumes.
	(4)	Medical Center Library reported number of volumes purchased. General Library and Law Library reported number of titles purchased; these figures were converted to estimated volumes by multiplying by a conversion factor of 1.2.
	(8)	Number reflects current inventory. Excludes Medical Center Library.
	(12)	Increase in number of General Library nonprofessional staff due to opening of two new branch libraries and receipt of additional grant funding.
	(15)	Includes General Library expenditures for nonserial microforms and audiovisual materials.
	(17)	Includes Law Library and Medical Center Library expenditures only. General Library included in Monographs Expenditures (15).
NEW YORK		All figures as of August 31, 1989.
	(17,18)	Excludes separate figures for Main Library.
NEW YORK PUBLIC LIBRARY	(7)	Reflects the results of a serials reduction project.

Institution	Category from Main Tables	Notes
NEW YORK PUBLIC LIBRARY (cont.)	(13)	Number used to calculate Student Assistants FTE is 35 hours/week.
	(14)	Includes number of positions authorized; does not reflect number of positions filled/vacant at any given time.
	(20)	Includes rebinding.
	(15-26)	Estimated figures; audited financial statements for FY 89 not yet available.
NEW YORK STATE LIBRARY		All figures as of March 31, 1989.
	(1)	Includes cataloged government documents.
	(14,26)	Includes figures for NEH, HEA II-C, and Library fund as well as State and LSCA funds.
NORTH CAROLINA		Includes Institute of Marine Sciences Library.
	(11,12)	Includes 2 FTE professionals and 1 FTE nonprofessional on special grant funds; excludes include 8.5 FTE paid from funds contributed by Duke and North Carolina State Universities for support of the Triangle Research Libraries Network.
	(26)	Includes $2,502,068 in grants, trust, and other special funds; excludes $443,206 in expenditures for the Triangle Research Libraries Network from funds contributed by Duke and North Carolina State Universities.
NORTH CAROLINA STATE		Includes Veterinary Medical Library.
	(18)	Includes bibliographic utilities ($35,033), memberships ($34,962), and other materials fund expenditures ($13,807).

Institution	Category from Main Tables	Notes
NORTHWESTERN		1988-89 data from Northwestern University were unavailable in time for publication. In light of a pending U.S. Department of Justice investigation of a number of colleges and universities concerning alleged collusion in determining tuition and financial aid for students, Northwestern University Library has been advised by legal counsel to delay submission of survey data at this time.
NOTRE DAME	(1)	1987-88 figure revised.
	(4)	Excludes Law Library figure.
	(9-10)	Current figures are for items filled. Previous years reported the number of items requested.
		Number of full-time instructional faculty excludes Law faculty.
OHIO STATE		Includes University Archives. Excludes College of Education curriculum/media center and several departmental reading rooms.
	(1,7)	Includes cataloged government documents.
	(5,6)	Apportionment of purchased and not purchased serials reflects completed analysis of recently computerized serial acquisition records.
	(11)	Includes 6 FTE positions funded by grants.
	(16)	Includes a $206,607 payment for Health Sciences that normally would be made in 1989-90.
	(17,18)	Includes only Law Library expenditures. Data for other libraries included in Monographs Expenditures (15) and Serials Expenditures (16).
	(25)	Includes expenditures attributed in 1983-84 and earlier years to the University computer center.

Institution	Category from Main Tables	Notes
OKLAHOMA		Volume count is bibliographical, reported in previous years as physical.
OKLAHOMA STATE		Includes OSU Technical Branches in Oklahoma City and Okmulgee, and the College of Osteopathic Medicine in Tulsa.
	(1)	Includes the addition of 21,817 volumes from the College of Osteopathic Medicine for which OSU assumed administrative responsibilities beginning July 1, 1988.
	(21-24)	Includes fringe benefits.
OREGON	(1)	1987-88 figure revised.
	(4)	Figure reported is titles rather than volumes.
	(5,6)	Excludes duplicate subscriptions.
	(9,10)	Figures are for number of patron requests rather than items.
	(17)	Included in Monographs Expenditures (15) and Serials Expenditures (16).
	(18)	Includes bibliographic utilities, LEXIS/WESTLAW searching, shipping charges, and miscellaneous.
		Full-time faculty figure represents tenured and tenure-track faculty.
PENNSYLVANIA	(8)	Includes government documents which were excluded last year.
		Number of Ph.D. fields reported for 1987-88 was incorrect.
PENNSYLVANIA STATE		Includes main campus and branches at Allentown, Altoona, Beaver, Berks, Delaware Co., DuBois, Fayette, Hazleton, McKeesport, Mont Alto, New Kensington, Ogontz, Penn State Erie, Behrend College, Penn State Great Valley, Penn State Harrisburg, Schuylkill, Shenango Valley, Wilkes-Barre, Worthington Scranton, York, and Capital College.

Institution	Category from Main Tables	Notes
PENNSYLVANIA STATE (cont.)	(1)	1987-88 figure revised.
	(11-14,15-26)	Reduced personnel and expenditures are due to the transfer of a department to central administration in July 1988.
	(17)	Included in Monographs Expenditures (15) and Serials Expenditures (16).
PITTSBURGH		Excludes branch campus libraries at Johnstown, Greensberg, Bradford, and Titusville.
	(1)	1987-88 figure revised.
	(11-14)	Includes 2 FTE professionals and 1 FTE student assistant paid from grant funds.
	(17)	Excludes microforms, except for the Law Library.
		Faculty figures include both instructional faculty and faculty identified otherwise.
PRINCETON	(24)	Figures prior to 1985-86 included fringe benefits.
		Full-time students figure for 1987-88 was incorrect.
PURDUE	(4)	Estimated figure.
		Number of Ph.D. fields includes the number of departments and interdisciplinary programs which grant Ph.D.s. In previous years number included some break-down within fields.
QUEEN'S		All figures are as of April 30, 1989.
	(4)	Figure reported is titles rather than volumes.
	(16)	Includes microforms.
	(17)	Includes audiovisual material only.
	(24)	Excludes Law Librarian.

Institution	Category from Main Tables	Notes
QUEEN'S (cont.)	(25)	Includes cost recovery of $175,000 (Can.).
	(15-26)	Expenditures reported in Canadian dollars were: (15) $1,266,355; (16) $2,455,549; (17) $21,293; (18) 0; (19) $3,743,197; (20) $133,350; (21) U/A; (22) U/A; (23) $215,371; (24) $5,245,435; (25) $498,212; (26) $9,620,194.
RICE	(9)	Includes ILL to corporate libraries.
	(17)	Included in Monographs Expenditures (15).
	(18)	Includes bibliographic utilities ($68,202); database searching ($63,241); security ($21,453); and memberships ($16,200).
	(19,25,26)	Includes all sources of funding.
	(24)	Includes positions funded by external grants, contracts, and transfers from other university budgets and cost centers.
ROCHESTER		Includes Sibley Music Library of Eastman School of Music.
	(1)	1987-88 figure revised. Sibley Music Library volume count is bibliographical.
	(5,7)	Includes purchased government document serials.
	(8)	Excludes Edward G. Miner Library and government documents.
	(15)	Includes microform series and backfiles of periodicals.
	(16)	Includes Edward G. Miner Library and monographic and publishers' series.
	(17)	Includes Sibley Music Library only.

Institution	Category from Main Tables	Notes
ROCHESTER (cont.)	(18)	Includes Rush Rhees Library only. Decrease from 1987-88 reflects shift in reporting for most of these expenditures to Other Operating Expenditures (25).
RUTGERS		Figures include two law libraries; services to a non-Rutgers medical school; and campuses in Camden, Newark, and New Brunswick.
	(1)	1987-88 figure revised.
	(19,22)	Excludes staff hired for special projects and grants.
SASKATCHEWAN		Excludes Theological College libraries on campus that are not part of the library system.
		Figures are as of April 30, 1989.
	(1)	1987-88 figure revised.
	(4)	Figure reported is titles rather than volumes.
	(17)	Included in Monographs Expenditures (15).
	(15-26)	Expenditures reported in Canadian dollars were: (15) $1,211,922; (16) $2,264,942; (17) U/A; (18) 0; (19) $3,476,864; (20) $118,085; (21) $1,541,380; (22) $2,861,037; (23) $192,809; (24) $4,595,226; (25) $659,664; (26) $8,849,839.
SMITHSONIAN		Includes Smithsonian Astrophysical Observatory in Cambridge, MA and Mt. Hopkins, AZ; Cooper-Hewitt Museum in New York City; and Smithsonian Tropical Research Institute in Panama. Excludes Hirshhorn Museum and Sculpture Garden, Woodrow Wilson International Center for Scholars, Freer Gallery of Art, National Museum of American Art, and National Portrait Gallery.
		All figures are as of September 30, 1989.

Institution	Category from Main Tables	Notes
SMITHSONIAN (cont.)		Basis of volume count is physical, reported in previous years as bibliographical.
	(2)	Represents 22,912 titles and 5,891 volumes.
	(4)	Includes 6,409 volumes received through Acquisitions services, and 56,000 volumes received in a collection of trade literature purchased with special funding.
	(15)	Includes S.I. Libraries budget ($412,895); and special funding for purchase of collection of trade literature ($150,000).
	(16)	Includes $198,772 pre-payment toward 1990 subscriptions.
	(17)	Includes ILL ($4,000) and photoduplication at the Library of Congress ($500).
	(18)	Includes conservation ($5,277); database searching ($82,000); document delivery ($86,200); S.I. Bibliographic Information System ($121,000); OCLC ($132,000); and contract cataloging ($57,500).
	(26)	Excludes health and medical benefits ($558,457); travel ($52,590); training ($19,378); and building and equipment maintenance ($39,100).
SOUTH CAROLINA	(11)	Includes 1 FTE paid from grant funds.
	(17)	Included in Monographs Expenditures (15) and Serials Expenditures (16).
	(25)	Includes one time expenditure of $925,000 for NOTIS installation.
SOUTHERN CALIFORNIA		Includes the Andrus Gerontology Center Library, the Hancock Library of Biology and Oceanography, and the Arnold Schoenberg Institute Library, and the Occupational Therapy/Physical Therapy and Nursing Collection; excludes the Safety and Systems Management Library.

Institution	Category from Main Tables	Notes
SOUTHERN CALIFORNIA (cont.)	(5)	Law Library figure is unavailable. Main Library and Medical Library figure is 14,591.
	(6)	Law Library and Medical Library figures are unavailable. Main Library figure is 19,092.
	(18)	Includes Law Library and Medical Library only. Similar expenditures for the Central Library System included in Other Operating Expenditures (25).
		Number of Ph.D.s awarded may include some D.Eds and D.P.A.s.
SOUTHERN ILLINOIS		Excludes School of Medicine Library (Springfield), which is not administratively part of Library Affairs.
		Number of Ph.D.s awarded excludes MD., JD., DBA., and RHD.
STANFORD		Figures include Hopkins Marine Station Library.
	(1)	1987-88 figure revised.
	(14)	Includes 15 FTE paid from grant and contract funds.
	(15-26)	Figures are as of August 31. 1989.
	(26)	Includes $1,169,939 in grant and contract funds.
SUNY, ALBANY		Includes the Dewey Graduate Library of Public Affairs and Policy on East campus.
	(4,5,7,)	Figures are as of March 31, 1989.
	(8)	Includes government document microforms.
	(11-14)	Includes 1 FTE professional, 4.4 FTE non-professionals, and 7 FTE student assistants in cost recovery or grant-funded positions.
	(18)	Includes ILL service ($4,167); memberships ($105,896); bibliographic utilities ($113,800); computer-based reference service ($15,200).

Institution	Category from Main Tables	Notes
SUNY, BUFFALO		All figures are as of March 31, 1989.
	(4)	Excludes monographs in series and continuations.
	(5)	Includes monographic series.
	(11-14)	Includes 5 FTE professionals, 3 FTE nonprofessional, and 10 FTE student assistants on special projects grants.
	(16)	Includes expenditures for monographic series.
	(18)	Includes memberships ($38,800) and bibliographic utilities and literature searching ($165,900).
	(23)	Excludes federal work-study funding.
		Ph.D.s awarded are as of June 30, 1989.
SUNY, STONY BROOK		Figures are as of March 31, 1988.
	(7)	Includes government documents for Health Sciences Library.
	(8)	Includes government documents for Main Library.
	(15)	Includes some microforms for main library.
	(18)	Includes bibliographic utilities and automation ($106,025); literature searching ($9,756); and memberships ($92,569).
SYRACUSE		Excludes Utica College.
	(4)	Figure reported is number of titles rather than volumes.
	(11)	Includes 3.5 FTE in Academic Computing Center.
	(21)	Includes $157,640 for Academic Computing Center staff.

Institution	Category from Main Tables	Notes
SYRACUSE (cont.)	(23)	Includes federal work-study funding for the first time.
	(25)	Includes Academic Computing Center computer rentals, collection insurance, as well as regular operating expenditures.
		Ph.D.s awarded include all doctoral degrees.
TEMPLE		Excludes Health, Physical Education, Recreation and Dance Library; Media Learning Center; Institute on Aging Library; Journalism Library; Test Library and Measurement Research Center; and Presser Learning Center. Includes branch campus libraries in Ambler, PA; Tyler Campus; and Temple University Center City, Philadelphia.
	(18)	Includes bibliographic utilities ($129,285); literature searching ($9,190); RLG membership ($78,700); and CRL membership ($21,162).
		Ph.D.s awarded include all doctoral degrees.
TENNESSEE	(1-3)	Includes government documents from Law Library only.
	(4)	Law Library figures unavailable.
	(17,18)	Includes figures for Law Library only.
	(21,22)	Includes longevity pay.
	(25)	Excludes cost recovery.
TEXAS		All figures are as of August 31, 1989.
		Includes the General Libraries, the Humanities Research Center, and the Tarlton Law Library.
	(5)	Figure unavailable for Law Library. Figures for the General Libraries and the Humanities Research Center are respectively 25,698 and 203.

Institution	Category from Main Tables	Notes
TEXAS (cont.)	(6)	Figure unavailable for Law Library. Figures for the General Libraries and Humanities Research Center are respectively 40,559 and 33.
	(14)	Includes 2.75 FTE staff hired on grant and/or recovery funds.
	(17,18)	Included in Monographs Expenditures (15).
	(19)	Includes expenditures of General Libraries ($4,146184), Humanities Research Center ($677,184), and Law Library ($726,004).
	(23)	Includes federal work-study funds.
		Ph.D.s awarded includes D.Ed. degrees.
		Faculty figure is budgeted FTE.
TEXAS A&M		Medical Library is a separate academic entity; data from its two branch libraries are not included.
		All figures are as of August 31, 1989.
	(8)	Includes NTIS documents.
	(15)	Includes some expenditures for Other Library Materials (17).
TORONTO		All figures are as of April 30, 1989.
		Includes only the libraries of the university within the President's budget; excludes libraries of the federated and affiliated institutions.
	(1,4,5,7)	Includes monographic series.
	(17,18)	Included in Monographs Expenditures (15) and Serials Expenditures (16).
	(22,23)	Regular part-time assistants' salaries were counted with nonprofessional staff rather than with wages and students as in prior years.

Institution	Category from Main Table	Notes
TORONTO (cont.)	(15-26)	Expenditures reported in Canadian dollars were: (15) $4,378,976; (16) $3,919,868; (17) U/A; (18) U/A; (19) $8,298,844; (20) $300,316; (21) $6,955,378; (22) $11,089,949; (23) $1,167,333; (24) $19,212,660; (25) $1,741,252; (26) $29,553,072.
TULANE		Includes Delta Regional Primate Research Center in Covington, Louisiana.
	(4)	Figure reported is a combination of titles and volumes.
	(18)	Includes SOLINET charges.
		Faculty figure includes faculty in School of Medicine and School of Public Health and Tropical Medicine.
VANDERBILT	(1)	Excludes 17,000 hours of videotape.
	(16)	Includes current serials and periodicals purchased in microform.
	(16,17)	Other Library Materials Expenditures (17) for Law and Medical libraries are included in Serials Expenditures (16).
		Full-time instructional faculty figure includes clinical faculty.
VIRGINIA	(5-7)	Includes monographic series in Health Sciences Library and Law Library.
	(13)	Increase in Student Assistant FTE is due to new computer count.
	(16)	Includes expenditures for monographic series in Health Sciences Library and Law Library.
VIRGINIA POLYTECHNIC & STATE UNIVERSITY		Includes "open reserve" collection of approximately 10,000 volumes at Northern Virginia Graduate Center in Falls Church, Virginia.

Institution	Category from Main Tables	Notes
VIRGINIA POLYTECHNIC & STATE UNIVERSITY (cont.)	(5-8)	Estimated figures.
	(11)	Includes 2 non-faculty department head positions.
	(16)	Includes pre-payment of $701,524 for 6,584 titles.
	(18)	Includes bibliographic utilities ($130,853); literature searching ($46,326); binding supplies and contractual services ($21,904).
		Full-time graduate student figure includes professional school (veterinary medicine) students.
WASHINGTON	(4)	Excludes Law Library.
	(7)	Excludes Law Library.
	(11-14)	Includes 1 FTE professional, 5.5 FTE nonprofessional, and 14 FTE students paid from cost recovery operations.
	(17,18)	Includes Law Library only.
WASHINGTON STATE	(11-14)	Includes staff for Instructional Media Services. Also includes .95 FTE professionals, 4.35 FTE nonprofessional, and 10.92 students paid from cost recovery and grant funds.
	(15)	Includes microforms and $3,799 in grant and cost recovery funds.
	(16)	Includes microforms, CD-ROMs, and $1,848 in grants and cost recovery funds.
	(17)	Includes figures for Instructional Media Service purchase of film and videos only.
	(21)	Includes $24,017 grant and cost recovery funds.
	(22)	Includes $79,681 grant and cost recovery funds.

Institution	Category from Main Tables	Notes
WASHINGTON STATE (cont.)	(23)	Includes $111,886 grant and cost recovery funds.
	(24)	Includes $215,584 grant and cost recovery funds.
	(25)	Includes $250,294 grant and cost recovery funds.
WASHINGTON, ST. LOUIS	(7)	Includes 7,883 current serials held in the Law and Medical libraries for which separate counts of purchased and not purchased are unavailable. Includes Law and Medical Library government documents.
	(17)	Separate costs not available for Dental School Library and the Central Library system.
	(18)	Figures apply to Law, Business, and Social Work libraries only.
	(25)	Includes on campus computing facilities and other automation costs, other services (i.e. postage, leases) and equipment. Also includes Social Security and annuity for all libraries ($304,045 fringes included for Central Library; no separate figures available for other libraries.)
		Faculty figures exclude Medical School faculty. Total with Medical School is 1,478.
WATERLOO		Figures include the University Map and Design Library, the Davis Centre Library, and the Optometry Reading Room.
		All figures are as of April 30, 1989.
	(1)	Includes cataloged government documents.

Institution	Category from Main Tables	Notes
WATERLOO (cont.)	(15-26)	Expenditures reported in Canadian dollars were: (15) $1,530,578; (16) $1,733,852; (17) U/A; (18) 0; (19) $3,264,430; (20) $80,110; (21) $2,089,214; (22) $2,833,629; (23) $268,532; (24) $5,191,375; (25) $648,712; (26) $9,184,627.
WAYNE STATE		All figures are as of September 30, 1989.
		Includes Reuther Archives of Labor and History and College of Pharmacy and Allied Health Professions.
	(14)	Includes 7 professional and 5 student assistant FTE on grant funding.
	(17)	Included in Monographs Expenditures (15) and Serials Expenditures (16).
	(21)	Includes one-time grant fund allocation of $154,875 for retrospective conversion.
	(23)	Includes one-time grant fund allocation of $48,096 for retrospective conversion.
	(25)	Includes one-time grant fund allocation of $75,568 for retrospective conversion.
	(26)	Includes one-time expenditure of grant funds ($278,539) for retrospective conversion.
WESTERN ONTARIO		Excludes libraries of 3 affiliated colleges and School of Library and Information Science.
		All figures are as of April 30, 1989.
	(1)	1987-88 figure revised.
	(17)	Included in Monographs Expenditures (15).
	(21,22)	Professional and non-professional salaries and wages cannot be separated.
	(15-26)	Expenditures reported in Canadian dollars were: (15) $2,116,450; (16) $2,383,054; (17) U/A; (18) $62,352; (19) $4,561,856; (20) $191,679; (21) U/A; (22) U/A; (23) $722,125; (24) $6,996,485; (25) $496,435; (26) $12,246,455.

Institution	Category from Main Tables	Notes
WISCONSIN	(1)	Includes maps.
	(5-7)	Includes some government document serials which are cataloged.
YALE		Includes Lewis-Walpole Library in Farmington, Connecticut.
	(1-4)	Excludes typewritten, handwritten, and mimeographed works (treated as manuscript materials).
	(5-7)	Excludes newspapers.
	(5,6)	Estimated figures.
	(7)	1987-88 figure revised.
	(14)	1987-88 figure of 668 was incorrectly printed as 868 in 1987-88 *Statistics*.
	(25,26)	Includes one-time automation expenditure of $462,000.
		Number of full-time instructional faculty excludes Medical School.
YORK		All figures are as of April 30, 1989.
		Includes Glendon Campus.
	(25)	Includes bibliographic utilities ($185,689 Can.) and online searching ($24,799 Can.).
	(15-26)	Expenditures reported in Canadian dollars were: (15) $1,366,188; (16) $1,802,834; (17) $132,190; (18) $150,825; (19) $3,452,037; (20) $227,166; (21) $2,493,910; (22) $3,134,882; (23) $700,199; (24) $6,328,991; (25) $1,159,691; (26) $11,167,885.